

THE UNIVERSITY OF LEEDS

Postgraduate degrees and diplomas

Research degrees Facilities are available for the pursuit of full time or part time supervised research

In selected disciplines Over 12 months full time or 24 months part time leading to the degrees of MA, MDSc, MEd, MSc(Eng) or MSc (by research)

In all departments Over a normal minimum of 2 academic years full time (3 academic years part time) leading to the degree of MPhil (LLM in the Faculty of Law) Over a normal minimum of 3 academic years full time (4 academic years part time) leading to the degree of PhD

Taught courses The University offers the following schemes of advanced study (full time unless otherwise stated) to suitably qualified applicants

MA
American Literature
Anglo German Literary Relations*
Arabic
Bibliography, Publishing and Textual Studies
British Government*
British History*
Classical Civilisation
Commonwealth Literature
Cultural Studies*†† *(provisional)*
Development Studies
Economic History*
Economic Statistics*
Economics†
Education and Local History
English Language and Medieval Literature
English Literature
English Literature and Education
English Literary Studies – Renaissance to Restoration
Greek
Greek Civilisation
Health Management Planning and Policy
Health Services Studies*
History of Scientific Thought*
Human Geography*
Icelandic Studies
Latin
Lingustics
Linguistics and English Language Teaching
Linguistics and Foreign Language Teaching
Local and Regional History*
Logic and Philosophy of Language*
Medieval Studies*
Modern English††
Organisational Diagnosis and Change*††
Philosophy of Mind*
Physical Education*
Political Sociology*
Political Sociology of Development*
Religious Studies*
Roman Civilisation
Social History of Art

MA *continued*
Sociology
Spanish*
Speech Sciences
Theatre Studies
Theology*
Transport Economics
Victorian Literature

MMus
Composition
Musicology
Opera Production
Performance

MBA
Management Studies

MSc
Cardiovascular Studies
Clinical Biochemistry*
Clinical Psychology
Colour Chemistry
Construction Engineering*
Economic Forecasting*
Engineering Ceramics
Engineering Geology
Environmental Pollution Control
Exploration Geophysics
Food Engineering
Food Science
Geochemistry
Integrated Design of Chemical Plant
Mathematical Education and Mathematics†
Medical Physics*
Mining Geostatistics
Pure Mathematics
Statistics
Steroid Endocrinology
Textile Dyeing and Finishing
Textile Science and Engineering
*Transport Planning and Engineering**

MEd
Adult and Continuing Education†
Education†
Physical Education*

MSc(Eng)
Civil Engineering in Hot Climate
Tribology in Machine Design
Tropical Health Engineering

MPH
Public Health

MMedSc
Clinical Psychiatry†
General Practice

MDSc
Community Dentistry
Dental Radiology*
Dentistry*
Orthodontics†
Paediatric Dentistry*
Paedodontics*
Restorative Dentistry

Postgraduate Diplomas
Clothing Technology
Education (10 Schemes)
English Studies
Food Science
Fuel and Energy
Health Planning and Administration
History and Philosophy of Science
Icelandic Studies
Linguistics
Metallurgy
Mineral Engineering
Mining Engineering
Phonetics of English
Textile Industries
Textile Design

Key
* Available full or part time
† Available part time only
‡ Subject to approval
†† Provisional

Further information
The University produces a Postgraduate Prospectus Copies together with other relevant information and application forms are available on request from
The Deputy Registrar (Postgraduate Admissions) The University, Leeds LS2 9JT

THE STUDENTS' GUIDE TO GRADUATE STUDIES IN THE UK 1987

Course advertisement

THE

DENTS' GUIDE

DUATE STUDIES IN THE UK

1987

CRAC



For information about placing an advertisement in this book, contact *Peter Learoyd*, Hobsons Limited, Bateman Street, Cambridge CB2 1LZ
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Sometimes the masculine pronoun is used in the text where the reference might more accurately refer to both sexes. This is to avoid tortuous, repetitive sentence structure peppered with 'he' and 'she'. Unless otherwise specified, readers should construe the reference 'he' as applying equally to both sexes.

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ISBN 0 86021 908 9

Computer typeset by Hobsons Cambridge
P278/m25w/K/HF

Published by Hobsons Limited,
Bateman Street, Cambridge CB2 1LZ

Printed by Benhams of Colchester

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Displayed advertisements giving further information about institutions and
'ourses appear throughout the book Relevant advertisements are cross
eferenced from the course listings

Heriot-Watt University
Faculty of Engineering



POSTGRADUATE COURSES AND RESEARCH 1987/8

The Faculty offers a wide range of postgraduate courses and opportunities for research. A *Guide to Postgraduate Study and Research* giving details of these is available from the Deputy Registrar, Heriot-Watt University, Chambers Street, Edinburgh EH1 1HX.

Masters courses currently available

Acoustics, Vibration and Noise Control	P/T *
Building Services Engineering	P/T, F/T *
Construction Management (Building)	P/T, F/T *
Design and Manufacture	P/T *
Hydraulic Engineering	P/T
Soil Mechanics	P/T
Structural Engineering	P/T
Highway Engineering	P/T
Digital Techniques	P/T, F/T *
Electrical Power Engineering	P/T, F/T *
Information Technology (Conversion Course)	F/T *
Petroleum Engineering	F/T *
Modular Course (combined faculty course)	P/T, F/T *

* *Postgraduate diploma course also available; F/T Full-time, P/T Part-time*

Research activities

The departments, together with their research activities, for which supervision is available for research, are listed below.

Building: Building technology; heating, ventilation and thermal insulation; construction management; building economics, wind effects on buildings, acoustics and sound transfer; building maintenance; building services engineering

Chemical and Process Engineering: Offshore processing; high temperature processing, powder production, marine technology; dynamic wetting and air entrainment; enhanced oil recovery, continuous processing; process control, effluent and pollution control operation, grain drying

Civil Engineering: Materials, mathematical/physical modelling of structures and soils, full-scale testing, member/soil characteristics, dynamics of compliant floating systems in short-crested seas; estuarine dynamics, pavement engineering; engineering education

Electrical and Electronic Engineering: Advanced robotics, multi-sensor perception systems; real-time intelligent control systems; image analysis; autonomous submersibles and sub-sea robotics; digital communications; computer architectures; microwave engineering; electrical power systems; power electronics.

Mechanical Engineering: Two-phase flow, flow in porous media; rotor dynamics; dynamic response to marine risers attached to floating vessels, vapour power cycles; boiling heat transfer; heat pumps; natural circulation of ducts; computer-aided engineering

Offshore Engineering: Single point moorings; dynamics of compliant structures; moorings, separated flow round bluff bodies; wind-wave interaction; laser-doppler techniques; wave and current loading on cylinders; environmental matters

Petroleum Engineering: Reservoir rock characterisation; reservoir and well damage studies; enhanced oil-recovery; multiphase flow of hydrocarbon systems; techno-economic study of offshore production systems; electrical properties of rocks; design of completion systems for deviated wells.

Preface for overseas students

A significant proportion of the total number of graduate students in the United Kingdom is from overseas There is great pressure on available resources and not all the demands made on them can be met The fact that there are several types of institution in which graduate studies can be pursued may in itself pose a problem of choice for the overseas student and this may be further complicated by the introduction of new courses, the revision of syllabuses and the discontinuation of courses The detailed guidance to graduate work given in this book is of great value to anyone wishing to begin a course of graduate study In addition the following general statements may be of particular help to overseas students

Quality and diversity

There are means used to ensure that academic standards do not vary from department to department or from institution to institution There is however considerable difference between universities and non university institutions in the range and orientation of graduate work offered Universities traditionally offer facilities for graduate study over a wide range of disciplines directly related to the research interests of the academic staff The chief constraints on the type of subject that might be studied at an advanced level whether by means of courses or individual research, have usually been the availability of teaching and supervisory staff and the facilities the work required More recently the growing complexity of knowledge in the principal areas of study and the emergence of new fields of investigation have required increased specialisation No university can now cover all fields of study in depth Graduate studies in non university institutions are largely of more recent origin and tend to concentrate on applied science technology and social studies Even within these fields they may concentrate on a limited number of specialisations

Polytechnics and other institutions

By concentrating their resources on specific areas of teaching and research the polytechnics are fulfilling the purpose for which they were established The polytechnics derive their funds from local education authorities and their activities are related to local industrial and commercial needs Polytechnics also offer part time and 'sandwich' courses which combine graduate study with commercial or industrial experience Universities differ in that they are funded by a national body the University Grants Committee they are autonomous institutions and are more free to decide what courses to provide and the level at which they are to be developed In spite of these differences it is worth noting that many university specialisations also derive from associations with local industry and that many universities aim to provide graduate courses related to a range of vocational demands and with more emphasis on applied than on pure academic research The policies of the five research councils which finance much graduate research encourage this

Degrees university and CNAA

Another feature of this rather complex higher education system is the awarding of

other

non

This

Council is responsible for examining and approving the academic content of

proposed undergraduate and graduate courses of study in polytechnics, central institutions and higher education institutions; ensuring that the courses are comparable in standard with those of universities; and awarding degrees to those who successfully complete the course. Most courses leading to CNAA degrees are in polytechnics, but other institutions are also permitted to devise new graduate courses where there is a specific local demand for them.

Research or coursework

The various sectors of the higher education system offer between them very extensive facilities for graduate study in most fields, and are able to match the special needs of most students. Moreover, there are opportunities for the student to pursue different types of study over different periods of time.

The two main possibilities are for research and for coursework. In the former, the student undertakes an agreed piece of original research under the supervision of a member of the academic staff. This research, which is expected to make a real contribution to existing knowledge in any subject, normally leads to a master's degree after two years, or to a doctor's degree after three or sometimes four years. Research students would normally be expected to relate their work to the specialist interests of departments or faculties in which they are working.

A degree by coursework involves regular attendance at lectures and seminars, and in most cases also the writing of a dissertation during part of the period of study. It normally leads either to a master's degree after one or two years, or to a diploma or certificate after nine to 12 months. However, in addition to long-term graduate studies of the types noted above, there are a number of 'post-experience' courses available in both university and non-university institutions. These may vary in duration from one week to six months or more, but normally do not lead to a recognised higher qualification; they provide training in a very specific field usually related to the applied sciences and the needs of industry, commerce or the professions. Courses less than six months in length are not included in *The Students' Guide to Graduate Studies.*

Prospects for admission

In most years, the competition for places in graduate studies is keen and numbers of well-qualified applicants have to be disappointed though inevitably the pattern of demand varies in differing subject areas and from institution to institution. Candidates will normally be accepted only if they already hold a first degree of good class and show evidence of ability to work at advanced levels. Some institutions in addition require a master's degree as a prerequisite for admission to doctoral studies. It is also usual to expect that the first degree should be in the same area of knowledge as the proposed field of graduate study; but it has become accepted that graduate students may also need to study in new academic fields for which courses were not available at first-degree level (ergonomics, for example) or to take 'conversion courses' which enable a graduate to transfer from one discipline to another (for example, from a pure to an applied discipline). What is or is not possible can be discovered only by application to the chosen institution. The potential applicant is well advised to remember the great care taken to maintain consistent academic standards all over Britain, and to consider the facilities offered in smaller, newer universities, polytechnics and other institutions which may not be so widely known as larger, long-established places.

Costs and scholarships

British graduate students are usually assisted by various government studentships and grants, principally by research council awards. Local education authority grants are also available, though these grants are mainly in the field of postgraduate teacher

training For the overseas student, there are many scholarships fellowships and other award schemes, including those offered by their own governments, by industry, by foundations, and by international organisations such as the United Nations The United Kingdom's Overseas Development Administration makes awards under various technical co operation schemes and the British Council also offers a number of scholarships each year Details of all the British award schemes can be obtained abroad from the local Representative of the British Council, or from the offices of the British Embassy or the High Commission Full time graduate study in Britain can be very expensive if the student does not have the benefit of an award of some kind The figures given here are the latest available they are for the academic year starting in September 1986 Expenses fall into three main areas travel to and from Britain, annual

cost of £630–£1,050 a year is estimated for a child On top of your basic living costs you

British Council Representatives are always able to advise intending students on the range of courses available in any particular field and on which course is likely to prove most suitable for the student's particular needs They can also provide a great deal of information on living conditions One of the most important problems for any student, particularly from overseas, is accommodation The British Council maintains offices in some university and polytechnic centres in Britain which can help certain categories of overseas students to find accommodation In London the British Council s Accommodation Unit can give advice to most full time overseas students

Information supplied by the British Council

Postgraduate Study in



Full-time

- Postgraduate Diploma in Video
- MA in Interior Design
- Postgraduate Certificate in Art and Design
- Diploma in Management Studies
- Postgraduate Diploma in Personnel Management
- Postgraduate Certificate in Education Art and Design, Music or Drama
- MSc/Postgraduate Diploma in Integrated Circuit and System Design
- MSc/Postgraduate Diploma in Microelectronics Engineering
- Postgraduate Diploma in Fuel Technology
- Postgraduate Diploma in Water Supply and Public Health Engineering
- Postgraduate Diploma in Social Work
- Supervised research for CNAA MPhil and PhD degrees

Part-time

- MA in History of Design
- Postgraduate Certificate in Art and Design
- Master of Business Administration
- Diploma in Management Studies
- Postgraduate Diploma in Personnel Management
- MSc/Postgraduate Diploma in Microelectronics Technology
- MSc in Water Pollution Control/Postgraduate Diploma in Air and Water Pollution Control
- Postgraduate Diploma in Fuel Technology
- Postgraduate Diploma in Geotechnics
- MA in Industrial and Social History
- Graduate Research Diploma in Humanities
- MSc/Postgraduate Diploma in Computer Graphics
- MA/Postgraduate Diploma in Deviancy and Social Policy
- MA/Postgraduate Diploma in Employment and Planning
- MA/Postgraduate Diploma in Conservation Policy
- MA in Political Economy
- Supervised research for CNAA MPhil and PhD degrees

Post the coupon to: Admissions Enquiries (ref C216A), Middlesex Polytechnic, 114 Chase Side, London N14 5PN, England, or telephone 01-886 6599 (24 hour answering service)

Please send me details of .... ☐Full-time ☐Part-time

Name____________________

Address____________________

C216A____________________

Middlesex Polytechnic

Publisher's notes

reference this is divided into four parts I Humanities and social sciences II

within each of the four parts Certain institutions have paid to have extended informa tion played out from the computer file in which the parent book *Graduate Studies* is

courses Relevant displayed advertisements are cross referenced from the course listings Additional information can be gleaned from the displayed advertisements which appear elsewhere in the book

The book has a short section l sting all institutions with postgraduate facilities For each the full postal address and telephone number are given and also the source of further information about postgraduate work

The background material in the introduction includes general advice about the impli cations of choice of subject and careers prospects and also information about financial support The detailed information is intended in particular for the guidance of students from overseas

It must be emphasised that *The Students Guide to Graduate Studies* is a wholly in dependent publication Although almost all information has been checked at source the amount and complexity of the material and the speed of production make it difficult to avoid error

It is essential that intending postgraduate students should consult the official publications of the institutions and research councils and in some instances the heads of

syllabuses outlined

UNIVERSITY OF GLASGOW



Graduate courses and research

Excellent facilities for **research** leading to master's degrees and doctorates are available in a full range of subjects within the departments of the University's eight faculties.

Courses of varying duration, from 6 months to 2 years, leading to diplomas! or degrees* (MAcc, MAppSci, MArch, MBA, MEd, MEng, LLM, MMus, MN, MPhil, MPH, MSc, MSc(MedSci), MSc(SciEduc), MSc(VetSci), MTh, or MVM as appropriate) are also available in the following subjects:

Natural and Physical Sciences
*Applications of Radiochemistry in Inorganic & Surface Chemistry; *!Applied Entomology; !Cartography; *!Computing Science; !Digital Mapping & Automated Cartography; *!Forensic Toxicology; *!Experimental Parasitology; *!Information Technology; *!Marine Science; !Mathematics; !Photogrammetry & Remote Sensing; *Preclinical Science & Education; *!Poultry Science; *Science & Science Education; *!Statistics; *Surveying; *Topographic Science.

Engineering
!Aeronautical Engineering; *!Building Services Engineering (part-time only); *!Civil Engineering; *!Desalination Technology; !Electronics & Electrical Engineering; *Engineering Management (*part-time only*); !Mechanical Engineering; !Naval Architecture & Ocean Engineering; *!Optical Information Technology.

Humanities and Theology
*!Adult Education; *!Architecture; *Art History; *!Biblical Studies; *Celtic Archaeology; *!Church History; *Classics; *Education; *Educational Studies; !Educational Psychology; *Educational Psychology & Child Guidance; *English & Hispanic Studies; *English Language; *English Literature; *French Fin-de-Siecle World, Literature, Art & Aesthetics; *French Theatre Studies (Contemporary); *History; *Medieval Studies; !Ministry; *!Modern English Language; *Music; *Philosophy; *!Practical Theology; *Renaissance European Literature; *Scottish Literature; *Slavonic Languages; *!Theology.

Legal, Financial and Social Studies
*!Accountancy; *Applied Population Analysis; *Business Administration (*part-time only*); *Comparative Politics; *Comparative Regional Analysis; !Development Policy; *Economic Development; *Economic Planning; !Geography; *!Housing Studies; *Human Rights; *Industrial Relations; *International Finance; *International Financial Management; *International Law & Development; *!Latin American Studies; *Law; *Management Studies (*part-time only*); *Monetary Economics; *Political Philosophy; !Roman Law; !Russian Language for Social Scientists; *Slavonic Languages; *Scottish Government & Administration; *!Socialist Theory & Movements; !Sociology; *!Soviet & East European Studies; *!Town & Regional Planning; *Urban Policy.

Human and Veterinary Medicine
*Anaesthesia; *Anatomy; *Clinical Pharmacology; *Clinical Psychology; *Dermatology; *!Forensic Medicine & Science; *General Practice; *Haematology; *Medical Cardiology; *Medical Genetics; *Medicine; *Nursing (*part-time only*); *Nutrition; *Ophthalmology; *Oral Medicine; *Oral Microbiology; *Oral Pathology; *Oral Surgery; *Orthodontics; *Pathology; *!Poultry Science; *Prosthodontics; *Public Health; *Surgery; *!Veterinary Medicine.

Further information is available from:
The Registrar, University of Glasgow, Glasgow G12 8QQ, Scotland.
Telephone: 041-339 8855. Telex: 777070.

Postgraduate studies

[illegible]

degree and an interest in his subject who is happy with academic life it holds obvious attractions in particular that of leading to a postgraduate qualification which should enhance employment prospects

The prospective postgraduate student should, however, consider recent developments in approach and availability of postgraduate work Opportunities to undertake highly specialised research for its own sake are becoming relatively scarce Employers are concerned that postgraduate training should be relevant to industry, to commerce and to society in general, this should be taken into account when deciding whether to work for a postgraduate qualification and on the type of qualification that would be most appropriate

Arts and social sciences

The changing direction of research is reflected in the number of courses orientated towards the specialist needs of non academic employers Arts graduates and graduates in the non vocational social sciences have inevitably few courses of this type Courses in the practical applications of language studies are among the most relevant

The emphasis on applied research is marked in facilities and courses outlined in the social sciences chapters in particular in economics, management and business studies and psychology There has been development in interdisciplinary graduate courses of this type for instance, in development studies, communications and tourism

Graduates in arts and social sciences should keep in mind the possibility of changing discipline Computing and accountancy are areas in which graduates in non science subjects are commonly accepted

Many postgraduate students in arts work for research degrees In arts research is in general, done on an individual basis and it is often possible for a department to arrange supervision of a very wide range of topics not necessarily related to the research interests of any member of the academic staff A high proportion of social sciences postgraduate students in British universities study in taught courses, primarily in social work or business studies

Sciences

The development of applied research in science subjects is especially marked in engineering and technology, for the graduate in either of which there are several options These include the traditional training in research for one or both of a master s degree and a doctorate, a specialist course for a master s degree or a diploma in the same discipline as the first degree or a related one, various forms of sponsorship including the sandwich course with varying amounts of time spent in employment and in research, and a period of employment gaining experience and a professional qualification before a return to academic life for specialist or research training Opportunities exist in almost all universities and polytechnics and in some colleges of higher education

Postgraduate training in pure science has suffered severe setbacks over the last few years. However, science graduates are rarely restricted to their first-degree discipline for postgraduate work: if they take a course of study for an intermediate degree they can train in a discipline that is different from their original one. For example, chemists can specialise in chemical engineering or food technology. Institutions have increased the number of courses in these areas, tailoring them to the requirements of graduates from numerous disciplines and providing both for those who will go straight into industry and for those going on to PhD research training. Departments are attempting to combine their academic requirements with employers' needs. Scientific and technological research in general is tending towards emphasis on applied content, since finance for such work is more easily come by.

Settling for immediate postgraduate training that ends in a diploma or professional award instead of a higher degree does not preclude taking such a degree later. There are a number of awards available for master's degrees and doctorate training for people who have spent some time in employment first.

The structure of higher degrees

A higher degree is the qualification normally awarded to graduates who have taken an advanced course of study and/or spent a period in supervised research, and have satisfied the examiners by passing a written examination or by presenting a thesis, or by a combination of both. Oral examinations are also commonly required; assessment by coursework is increasingly in use at postgraduate level. Generally the intermediate degree is that of master and the more advanced that of doctor of philosophy. The higher doctorate, with which this volume is not concerned, is generally awarded on the evidence of published work contributing substantially to knowledge. Normally a thesis for a doctorate is expected to be an original work displaying knowledge of the field combined with the exercise of critical judgement and containing material worthy of presentation as a definite contribution to knowledge. The grant-awarding bodies define research for a doctorate as 'training in research methods'. A thesis for a master's degree does not require the same standard of originality, such thorough literature searches or such a high critical content; it is, in fact, normally either a record of research undertaken (without any assessment of the implications) or a dissertation embodying a survey of the literature in the field of study concerned.

In the past, possession of the master's degree was taken to mean that the possessor was either on the way to a doctorate or had failed to achieve the required standard (except at those universities that award master's degrees after first degree studies). But in recent years a master's degree has in most institutions become an end in itself. This means an increasing number of set syllabuses tailored to meet the needs of specific areas of employment or advanced research, but still leaving the way open for the graduate to go on to a doctorate. Courses leading to master's degrees may also be taken by graduates without the required entry qualifications and candidates who do not wish to work to so high a standard; in such cases a postgraduate diploma is generally awarded.

Entrance requirements and periods of study

Entrance qualifications tor entry to study for all higher degrees are high and are made still higher by the shortage of grants or other financial support. The entrance requirements and the periods of study are laid down in individual institutions' regulations and are closely related. Extra periods of study or a qualifying examination may be required of candidates with less than the stipulated entrance requirements or a degree in a subject not sufficiently close to the proposed area of study; the

problem for those in this situation is not so much to gain admission as to find

register first for the master's degree or as a research student before permitting them to register retrospectively after a period of assessment for the doctorate It is increasingly common practice for candidates for any research degree to be required to hold a master s degree by instruction and examination or to attend the course for the relevant master s degree before embarking on the period of research

In most institutions it is possible to submit theses for higher degrees in the minimum time allowed by the regulations if the candidate's qualifications are good enough but this is not invariable At many institutions it is theoretically possible to be admitted to the doctorate in two years but in practice this may be possible only in exceptional circumstances

The period of study for a master s degree by instruction and examination is normally one year commonly a full calendar year Coursework for some of these degrees occupies only from the beginning of the academic year until the Easter vacation, the final term is usually spent on a research project and the summer devoted to writing it up For others an academic year is spent on coursework and the following long vacation is spent on the research project and dissertation

Many institutions permit candidates to work for higher degrees on a part time basis, this is commonly taken up by candidates for research degrees Timetabling problems make part-time courses more difficult although an increasing number of industrially orientated courses can be taken on a part time or sandwich basis A few institutions permit students to carry out part time research only if they live within a reasonable distance, and a few offer part time study to their graduate staff only

CNAA degrees

The Council for National Academic Awards is an autonomous body established by Royal Charter to award degrees and other academic distinctions comparable in standard with awards granted and conferred by universities The Council can award degrees or diplomas to students who have completed courses of study at educational institutions other than universities and research degrees to those who have success fully carried out research work under approved conditions supervised either by an educational or research institution other than a university The Council awards the following higher degrees MA, MBA, MEd and MSc, MPhil and PhD for successful completion of approved programmes of supervised research, and also a diploma for successful completion of approved postgraduate courses

Candidates must hold entrance qualifications similar to those stipulated by the universities The minimum period of study for the master s degree by instruction and examination is one calendar year full time and for the diploma 25 weeks full time or

with an appropriate master's degree

Candidates for research degrees must be sponsored by an educational research industrial or commercial institution and the application must be submitted to the CNAA by the director of that institution on behalf of the candidate The Council s approval depends on factors such as the candidate s qualifications the suitability of the proposed research project the arrangements for supervision and the facilities available for the research Further details and a copy of the *Directory of Postgraduate*

and Post-Experience Courses may be obtained from the Council's offices at 344-54 Gray's Inn Road, London WC1X 8BP

External study

In *The Students' Guide to Graduate Studies* the phrase 'external study' is used in the sense that work for a higher degree is carried out outside the registering university. It is not to be confused with the arrangements that apply for external degrees of certain universities.

Perhaps one of the major factors that encourages graduates to carry out research for a higher degree at their graduating university is the fact that their university will grant them a degree on the evidence of research carried out elsewhere. However, a high proportion of universities have some arrangements for graduates of other universities to study externally for higher degrees. It is fairly common, for example, for PhD candidates to be able to spend a year away from the university; fewer universities permit candidates to carry out their entire research programme away from the university. Details should be obtained from the contacts given for each institution in the individual institution entries.

In all this the major factor is one of adequate supervision and whether the candidate is getting the necessary training in, for example, advanced research techniques. Most universities require adequate proof of this and try to ensure that candidates have good contacts with their university supervisors and are able to attend necessary courses and seminars. Arrangements for external study are usually only permitted to candidates whose arrangements and ability are individually approved by the relevant university.

The CNAA, of course, provides ideal conditions for research degrees to be taken while working.

Affiliated research institutions

Beyond the usual postgraduate opportunities at universities there is a rich area of student opportunity at affiliated institutions funded by research councils and private bodies.

At the back of the book will be found a list of addresses of the affiliated research institutions in which there are opportunities for postgraduates to undertake research projects which may lead to higher degrees. Detailed information about the range of work carried out in them is available from the research councils whose addresses are in the Postgraduate awards section. Research students who work in these institutions must register with a university or with the CNAA for the award of a higher degree. Some universities have outlined work carried out at affiliated institutions in their entries describing research opportunities.

Postgraduate study abroad

If you are interested in the possibility of studying in another Commonwealth country, consult the *Commonwealth Universities Yearbook*, published annually by the Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF.

For information about institutions in other parts of the world, the International Association of Universities in Paris publishes biennially the *World List of Universities*. It also publishes every three years the *International Handbook of Universities and other Institutions of Higher Education*. The Unesco publication *World Guide to Higher Education: a comparative survey of systems, degrees and qualifications* (Unesco Press, Paris) might also be worth consulting. For further information about postgraduate study in the USA, contact the US Information Service.

Postgraduate awards

Brief details are set out below regarding the main sources of support for post graduate students information is correct at 31st January 1986 Prospective applicants should obtain further information for themselves regarding those awards for which they consider themselves to be eligible and should consult their tutors before applying

Agricultural and Food Research Council
The AFRC offers a limited number of awards annually Up to 15 research student ships are available to enable graduates in science or veterinary studies to work for a maximum of three years for a higher degree at any of the institutes of the Agricultural and Food Research Service the institutes are listed in the publication given at the end

made through the director of the institute(s) of the candidate s choice Awards are at the standard postgraduate level for research council awards There is a tax free main tenance allowance which is reviewed annually (the standard allowance for the academic

adjustment for instance a reduction on account of additional income above a certain

professional experience
In addition up to four veterinary training awards are offered annually to enable veterinary graduates to undertake a formal one year course of instruction in a specific scientific discipline before embarking on a career in research on farm animals or to enable science graduates to undertake an approved course of instruction in a specific scientific discipline Details regarding application and value of award are as above
Full information is contained in the publication *Regulations governing Post graduate Awards* updated annually and available from Agricultural and Food Research Council 160 Great Portland Street London W1N 6DT telephone 01 580 6655

Department of Education and Science and British Academy
The Department of Education and Science operates a bursaries scheme for students

Science The value of the bursaries is comparable to undergraduate grants and there is a similar requirement for parental contribution according to income Full details are given in the publication *Postgraduate Awards 1* in the series of guides to grants

available from the DES.

State studentships are offered for postgraduate study in subjects within the field of the humanities at universities and certain other institutions of higher education; they are available for certain courses of study and research leading to a higher degree, and for certain certificate or diploma courses not covered by the bursary scheme. State studentships are tenable for up to one year only; major state studentships may be held for up to three years. The studentships are administered by the British Academy. Details regarding eligibility and the amount of awards are similar to those for AFRC awards above. Full details are given in *Postgraduate Awards 2*, available from the British Academy at the address given below for the DES.

Postgraduate awards in information science are also offered by the DES. Research studentships are offered to students being trained in the methods of research and advanced course studentships are offered to students taking suitable postgraduate courses of instruction: details for the studentships are similar to those for AFRC awards above. 'Instant' awards are offered to those with at least one year's acceptable postgraduate experience in industry, and conditions are similar to those relating to the studentships. Full details of this group of awards are given in *Postgraduate Awards for Librarianship and Information Science*, available from the DES.

The publications listed and other information regarding postgraduate awards are available from the Department of Education and Science, Honeypot Lane, Stanmore, Middlesex HA7 1AZ; telephone 01-952 2366

Economic and Social Research Council

The ESRC makes awards for full-time postgraduate courses and research. The subjects within its scope are accountancy, area studies, computing applied to the social sciences, criminology, economic and social history, economic and social statistics including demography, economics, education, ethnology related to social anthropology, human geography, international relations, management and industrial relations, planning, political science, psychology, social anthropology, sociology, socio-legal studies and social administration. There is some overlap with the other research councils and the DES, particularly in history, area studies and socio-legal studies.

ESRC studentships are intended for support of postgraduate study for a higher degree, either by thesis or examination. They also cover some academic diploma and certificate courses, usually conversion courses for candidates intending to undertake postgraduate study who do not have a suitable academic background. Under the committee awards scheme, awards are allocated to departments for coursework, linked and collaborative research (closing date 1 June). Awards are also available through the student competition for coursework and research training (closing date 1 May). Details of eligibility and value are similar to standard research council awards; see AFRC section above.

Linked studentships may be available in certain subject areas: they are intended to link an on-going research project providing stimulus, guidance and data with the opportunity to gain a higher degree.

Bursaries are available for full-time postgraduate study on diploma or certificate courses of a vocational nature in business and management studies. Their value is the same as undergraduate grants, and they are subject to contribution by parents or spouse according to their income

Full information is given in the publications *ESRC Studentship Handbook* and *ESRC Bursary Handbook*; these are available from the Economic and Social Research Council, Postgraduate Training Division, 160 Great Portland Street, London W1N 6DT; telephone 01-637 1499.

Medical Research Council

The MRC provides grants for medically and non-medically qualified graduates who are working in the general field of medical research This includes graduates in anatomy, physiology, biology, pharmacology, chemistry, biochemistry, psychology, physics, statistics and engineering

Advanced course studentships are offered to enable science graduates to attend [illegible]

relating to the awards are similar to those for AFRC awards above

Research studentships are available to enable young graduates with good honours degrees in science to undertake research training in a subject relevant to medicine which is normally expected to lead to a higher degree (details are similar to those for AFRC postgraduate studentships above) Students are encouraged to undertake training at an institution other than the one at which they graduated

Full details of these awards are available from the Medical Research Council (Training Awards), 20 Park Crescent, London W1N 4AL, telephone 01-636 5422

Natural Environment Research Council

The NERC offers awards for research or other postgraduate training in the scientific aspects of the natural environment, broadly defined as the solid earth its physical properties and mineral resources, the inland waters and their living resources, the terrestrial communities their resources and amenities, the seas and oceans and their living resources, and the atmosphere

Research studentships are available to provide for the maintenance of well qualified graduates being trained in the methods of research and working for a PhD They are awarded for up to three years Details of eligibility and value are as those for standard postgraduate awards offered by research councils (see AFRC section) Allocation of awards is made by nomination of heads of departments the number of awards being fixed by a quota system, some additional awards are available for those unsuccessful in gaining a quota award Most research students are based in universities and polytechnics but a few hold awards in government funded research institutes, and some are trained jointly by academic institutions and industry, public authorities or research institutes and are awarded CASE Studentships (Co operative Awards in Sciences of the Environment)

Advanced course studentships provide for the maintenance for up to one year of well-qualified graduates taking suitable postgraduate courses of instruction Awards are tenable only on courses which have been listed as recognised by the NERC for the purposes of its studentship scheme Details of eligibility and value are similar to those for AFRC studentships above

Industrial studentships are offered to support those who have had considerable experience in industry and who are older than the usual candidates for a studentship The studentships are intended to enable industrial scientists to obtain further training on suitable courses of instruction

Full information is given in *NERC Training Awards*, obtainable from the Natural Environment Research Council, Polaris House, North Star Avenue, Swindon SN2 1EU, telephone Swindon (0793) 40101

TRENT POLYTECHNIC

-The Key to your future

Trent Polytechnic is one of the largest polytechnics with over 7,000 full-time and sandwich students and 3,000 part-time students. Of these around 830 are postgraduates.

The Polytechnic is situated right in the heart of England in the City of Nottingham—an attractive and lively city with first class sporting, cultural and recreational amenities. The Polytechnic is based on two sites, one in the city centre and the other on the outskirts of the city in a rural setting at Clifton.

The Polytechnic libraries house around 400,000 books and take over 2,500 periodicals. A well developed computing service is available to all students.

Trent Polytechnic offers taught courses leading to a number of postgraduate qualifications, these include:

MASTER'S DEGREES: MA Accounting & Finance (p-t), Economics (p-t), Fine Art (p-t) Knitwear & Knitted Fabric Design (f-t) Politics & Administration of the Modern State (p-t). MSc Computer Aided Engineering (p-t), MEd Primary Education (p-t).

CERTIFICATES: Postgraduate Certificate in Education (f-t), Postgraduate in Education (Craft, Design & Technology) (f-t), Certificate in Education for Teachers in Further and Higher Education (p-t).

DIPLOMAS: Administrative Management (f-t), Applied Social Studies (f-t), Accounting & Finance (p-t), Management Studies (p-t), Education Management (p-t), Further Education (p-t), Atmospheric Pollution Control (p-t), Health & Safety for Enforcement Officers (p-t).

PROFESSIONAL QUALIFICATIONS: Careers Guidance Diploma (f-t), Law Society Common Professional and Finals (f-t), Institute of Marketing Diploma (p-t), Institute of Purchasing & Supply Professional Stage (p-t), Mining Qualifications Board First Class Legislation (p-t).

RESEARCH: Supervision of research leading to MPhil and PhD degrees validated by the Council for National Academic Awards is available in the following areas: Accounting & Finance, Building & Environmental Health, Business & Management Studies, Civil & Structural Engineering, Computing, Economics & Public Administration, Education Studies, Electrical & Electronic Engineering, Fashion & Textiles, Fine Art, History & Geography, Industrial & Production Engineering, Legal Studies, Life Sciences, Literature & Languages, Mathematics, Statistics & Operational Research, Mining, Mechanical Engineering, Physical Sciences, School Technology Craft & Design, Social Studies, Surveying, 3-D Design, Town & Country Planning, Visual Communication.

ACCOMMODATION: The Polytechnic can provide accommodation for over 1000 students, with priority given to those in their first year at the Polytechnic. An Accommodation Service also exists to help students find suitable accommodation elsewhere in the city.

Further information is available in our Postgraduate Courses and Research Faciliti Prospectus, available from Ms G Blaikley, Information Officer, Trent Polytechnic, Burton Street, Nottingham NG1 4BU. Director: Professor J O'Neill BSc (Eng) C.Eng Telephone (0602) 418248. Telex 377534.

Trent Polytechnic Nottingham



Nottinghamshire County Council

Science and Engineering Research Council
SERC awards are made for research or other postgraduate training in science and

management courses

Research studentships provide for the maintenance of students being trained in the methods of research and usually working for a PhD They are awarded for up to three years Applicants must have at least upper second-class honours Details of eligibility and value are similar to the standard for research council studentships (see AFRC above), closing dates for the different types of award are different As with NERC studentships, a quota system applies

Advanced course studentships provide for the maintenance of students taking

'Instant' awards are similar to research studentships but are not tied to a quota system, they are intended for candidates in employment who need an early decision

problems and people working in industry

Er
Nc

Training Opportunities Scheme
The TOPS scheme aims to provide financial support for those who are seeking training for a career, it is particularly intended to help those without formal training, with outdated skills, or who wish to change their career Those following certain postgraduate courses who are over 19 years of age and have spent two years away from full-time education may be eligible for support under the scheme.

TOPS awards cover fees and provide financial support The awards are not affected by a wife's or husband's earnings Amounts vary according to whether the student is home-based or not, and additional payments are made for dependants

Full information is obtainable from local Job Centres, Employment Offices, or Training Service Division District Offices

Awards for Irish students

Other awards
In addition to the awards outlined above, some postgraduate awards are available from
Department of
astle, London
SW1P 3DY,

Ministry of Agriculture, Fisheries and Food, Great Westminster House, Horseferry Road, London SW1P 2AE; British Library Research and Development Department, Sheraton House, Great Chapel Street, London W1V 4BH.

Although the majority of postgraduate students are supported from public funds, it is possible to find financial support elsewhere. Funds from industry, commerce or university or college research contracts are tied to areas of research or study of relevance to the donor; few are likely to be available for arts students and not very many for social scientists. Individual institutions can make some awards themselves; details of such awards are available from the institutions. Charitable trusts provide a number of awards, generally for very specific purposes, or to particular groups of graduates. For example, the Carnegie Trust for the Universities of Scotland offers a number of fellowships and scholarships to graduates of Scottish universities and to members of staff in universities and colleges in Scotland.

Details of the various types of award tenable at universities in the United Kingdom and in other Commonwealth countries are given in *Scholarships Guide for Commonwealth Postgraduate Students* and *Awards for Commonwealth University Academic Staff*, which are published in alternate years by the Association of Commonwealth Universities (both available from the ACU, John Foster House, 36 Gordon Square, London WC1H 0PF).

Intending postgraduates are also advised to consult *Educational Charities: a Guide to Educational Trust Funds*, published by the National Union of Students; the *Directory of Grant Making Trusts*, published by the Charities Aid Foundation; and *The Grants Register*, published by Macmillan Press.

The postgraduate certificate of education

Anyone who wants to embark on a career teaching in state schools needs O levels in [illegible]

have come through the PGCE route, which may be followed in universities poly technics, or colleges of higher education

PGCE courses prepare students for teaching in primary schools or in secondary schools, or in age ranges within or across this division At the primary level students can [illegible]

ranges Secondary school courses prepare students to teach the 11 to 18 age range Some of the secondary courses allow specialisation in teaching in the post compulsory sector of education from 16 years upwards, which can take place in schools, sixth form colleges further education colleges or tertiary colleges FE colleges and tertiary colleges are [illegible]

education in the UK Information on what is available at each training institution in England and Wales is listed in material obtainable from the Graduate Teacher Training Registry at 3 Crawford Place London W1H 2BN All courses on the GTTR list can lead following satisfactory completion of a year's probationary teaching to qualified teacher (QT) status, which is necessary for teaching in state schools and sixth form colleges There are other initial teacher training courses open to graduates and non graduates and specialising in further education at Garnet College and at Bolton Huddersfield and Wolverhampton Polytechnics

Most students on secondary PGCE courses intend to teach their degree subject or subjects The range of subject courses on offer broadly matches the subjects of the secondary school curriculum, except that training for some subjects, such as craft, design and technology, home economics, and physical education, is normally via a BEd degree However, some institutions only offer one or two subjects while others offer [illegible]

there is a shortage of applicants for training places and recently this has also applied to modern languages

On many secondary courses it is also possible to take a second subject This is important at a time of falling school rolls when head teachers need to maintain a balanced curriculum despite losing staff, the head s options are increased if staff can teach more than one subject The degree of choice between second subjects is likely to depend upon the overall size of the course in a particular institution, it may include such areas as special needs careers education or pastoral care Apart from falling rolls many changes affecting secondary education demand increasing flexibility on the part of the teacher The new GCSE examination the one-year Certificate of Pre vocational Education for 16–17 year olds, and the government s Technical and Vocational Initia



University of Leicester School of Education

With over 300 PGCE students, the Leicester School of Education organises one of the largest one-year initial teacher training courses in the country. This means that a wide variety and choice of course is available.

Postgraduate Certificate in Education courses offered include the following

a) A **Primary Course** offering two age specialisms Early Years (age 3 – 7 years) and Junior Years (age 7 – 11 years), and also an Educational Psychology tutorial group

b) A **Secondary Course** which specialises in

English
Teaching English to speakers of other languages
Integrated Humanities
Geography
History
Social Sciences
Mathematics
Modern Languages
Science
Chemistry
Biology
Physics

Also within the Secondary Course is a tutorial group in Communication Studies in Further Education

All these courses are 36 weeks long and are firmly school-based Work in partnership schools and IT-INSET programmes forms a central part of the experience There are two teaching practices, which are undertaken in two sorts of school/college, of which there is a wide variety in Leicestershire Practising school teachers play a key role in the courses The courses have three major components – school experience, curriculum studies and the study of educational theory relevant to classroom practice

Further information from:
PGCE Office, University of Leicester School of Education, 21 University Road, Leicester LE1 7RF

University of Warwick

FACULTY OF SOCIAL STUDIES

Academic Departments and Schools: Applied Social Studies; Economics; Interdisciplinary Women's Studies; International Studies; Industrial and Business Studies; Law; Philosophy; Politics; Psychology; Sociology.

Research Centres: Centre for Research in Ethnic Relations; Development Economics Research Centre; Industrial Relations Research Unit; Institute for Employment Research; Institute for Management Research and Development; Legal Research Institute; Macroeconomic Modelling Bureau; Nursing Policy Studies Centre.

Research Degrees: LLM; MA; MSc; MPhil; PhD

Taught Postgraduate Degrees: *LLM; LLM Law in Development; Law in Society.

MA *Applied Social Studies; Continental Philosophy; *Economics; Industrial Relations; Interdisciplinary Women's Studies; *International Studies; Philosophy; Philosophy and Literature; *Politics; Race Relations; *Sociology of Labour; *Sociology of Education; *Sociological Research in Health Care.
MBA
MSc Cognition, Computing and Psychology; Management Science and Operational Research; Psychotherapy.
PhD Economics.

* = Postgraduate diploma also offered.

Awards: The University offers nine postgraduate awards open to all four faculties. The Faculty of Social Studies has been successful in attracting ESRC and SERC awards for research and taught courses: 74 students currently hold research council awards. Additionally there are a number of endowed and sponsored awards and 32 DHSS awards are held by students in Applied Social Studies.

Further information from the departments listed above or **The Academic Registrar, University of Warwick, Coventry CV4 7AL**

tive, are just some of the current developments demanding new skills which require attention within PGCE courses

Students on primary PGCE courses are prepared for the generalist role of class teacher, responsible for all areas of the curriculum, particularly language and mathematics, but also able to make a special contribution by exploiting his/her own academic strength It follows from this last requirement that training institutions look for some correspondence between a student s degree subject(s) and areas of the primary school curriculum, but a candidate s personal qualities and breadth of experi ence are also important at the selection stage One year is a short time for teacher [illegible]

[illegible]

tions expect candidates to have spent some time in a primary school prior to interview so that they are aware of the realities of the situation

Both primary and secondary PGCE courses involve three main elements curriculum or method work, professional education studies and school experience The labels and the extent to which the elements are integrated may vary but school experience is in creasingly seen as the main integrating element School experience includes both observation and teaching practice and may involve day release part week and block periods of time Some courses place students mainly in one school during the year, others provide experience in two or three Patterns of school experience vary but there is a tendency for the final assessed teaching practice to be in the spring term for secondary courses and in the summer term for primary courses

Curriculum studies cover the part of the course concerned with the subject students intend to teach Professional education studies include studies of the disciplines of the history, philosophy, psychology and sociology of education and studies of the class room skills needed by the teacher In some courses there may be discrete components within professional education studies, in others there is greater integration reflecting a shift in concern from the academic disciplines themselves to their relationship to the practicalities of the classroom situation Assessment of the theoretical elements of PGCE courses is now normally by continuous assessment

The number of PGCE places offered by a training institution varies from less than 40 to over 200 Some specialise in primary or secondary training while others do both [illegible]

courses in colleges and polytechnics Nowadays all courses are subject to scrutiny by the government, anxious to boost teaching quality, through Her Majesty s Inspectorate (HMI) and the Council for the Accreditation of Teacher Education [illegible]

year PGCE course cannot convert a graduate into a fully fledged teacher It offers an initial training course designed to equip the student to operate effectively in the class room and in the school and to alert the student to the need for continuing professional development within his/her career

Michael Weller
28th July 1986

Institutions offering PGCE courses

Mr D V Steel
Course Director for Primary Education
Aberdeen College of Education
Hilton Place
Aberdeen AB9 1FA

Dr D Macnab
Course Director for Secondary Education
Aberdeen College of Education
Hilton Place
Aberdeen AB9 1FA

Miss Linda Mansell
Bath CHE
Newton Park
Bath
Avon BA2 9BN

Dr W A H Scott
Director of Studies for PGCE
University of Bath
School of Education
Claverton Down
Bath BA2 7AY

Mr A Fitzgerald
Senior Tutor for PGCE
Birmingham University
Faculty of Education
PO Box 363
Birmingham G15 2TT

Miss Margaret Rees
Bedford College of Higher Education
37 Lansdowne Road
Bedford MK40 2BZ

. . Harris
Birmingham Polytechnic
Faculty of Education and Teacher Training
Westbourne Road
Edgbaston
Birmingham B15 3TN

Miss Maureen Geddis
Bishop Grosseteste College
Lincolnshire LN1 3DY

Mr Richard Harris
Course Tutor for PGCE
Bolton Institute of Higher Education
Chadwick St
Bolton

Mrs Brenda Shepherd
Course Tutor for PGCE
Bradford and Ilkley Community College
Room 265
Great Horton Road
Bradford BD7 1AY

Dr Irene Farmer
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Bretton Hall College
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Brighton Polytechnic
Faculty of Education
Village Way
Falmer
Sussex BN1 9PH

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Redland Hill
Redland
Bristol BS6 6UZ

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Bristol University
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PGCE Division
Helen Wodehouse Building
35 Berkeley Square
Bristol BS8 1JA

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Bulmershe College of Higher Education
Woodlands Avenue
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North Holmes Road
Canterbury CT1 1QU

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East Anglia University
Norwich NR4 7TJ

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Abbreviations used in entries

This list does not include standard abbreviations for chemical elements and formulae, accepted terminology in physics or names of computer programming languages

ac alternating current
addn addition
adj adjacent
admin administration, administrative
adv advanced
AFRC Agricultural and Food Research Council
AI artificial intelligence
amp ampere, amperage
ANS autonomic nervous system
approp appropriate
approx approximate, approximately
assoc association, associated
atm atmosphere, atmospheric
betwn between
bibliog bibliography, bibliographical
biochem biochemistry, biochemical
biog biography
C centigrade, Central
c calendar, circa
CAD computer-aided design
CAE computer aided engineering
CAL computer-aided learning
CAM computer-aided manufacture
cc cubic centimetre(s)
CCETSW Central Council for Education and Training in Social Work
cent century
CERN European Centre for Nuclear Research
cert certificate
chem chemistry, chemical
cm centimetre(s)
CNS central nervous system
cont continued
contemp contemporary
cpd(s) compound(s)
CQSW Certificate of Qualification in Social Work
cu cubic
d dimensional (as in 3-d)
dc direct current
Dec December
deg degree
dept department
deriv(s) derivative(s)
Derbys Derbyshire
DES Department of Education and Science
DNA deoxyribonucleic acid
doz dozen
E East, Eastern
EC European Community/Communities
ecg electrocardiogram, electrocardiography
econ economic
EEC European Economic Community
eeg electroencephalogram, electroencephalograph
eg for example
EHD electrohydrodynamics
EITB Engineering Industry Training Board
elem elementary
e-m electro-magnetic
e-mf electro motive force
emu electro-magnetic unit(s)
eng engineering
eqn(s) equation(s)
eqpt equipment
equiv equivalent
esn educationally subnormal
ESP extra-sensory perception
esp especially
esr electron spin resonance
ESRC Economic and Social Research Council
estab establishment, established
eV electron volt
exam examination, examined
excl excluding
expt(l) experiment(al)
Feb February

fl(s) fluid(s)
fluor fluorescence, fluorescent
freq frequency
FRG Federal Republic of Germany
ft foot, feet
f-t full-time
g gram(s)
gal(s) gallon(s)
GDR German Democratic Republic
gen general
geochem geochemistry, geochemical
geog geography, geographical
geol geology, geological
geom geometry, geometrical
glc gas liquid chromatography
GNP Gross National Product
govt government
gp(s) group(s)
grad(s) graduate(s)
Herts Hertfordshire
h-f high-frequency
hist history, historical
histochem histochemistry, histochemical
hons honours
h-p high pressure
hplc high performance liquid chromatography
hq headquarters
hr(s) hour(s)
h-v heavy vehicle
Hz Hertz
ic internal combustion
illum illumination
illus illustrated
immunochem immunochemistry, immunochemical
immunol immunology, immunological
in(s) inch(es)
inc include, including
inorg inorganic
inst institute, institution(al)
intro introduction, introductory
IPM Institute of Personnel Management
i-r infra-red
Jan January
LA Library Association
lab laboratory
Lancs Lancashire
lang(s) language(s)
lat latitude
lb(s) pound(s)
l-f low-frequency
Lincs Lincolnshire
liq liquid
lit literature
log logarithm
l-p low-pressure
l-temp low-temperature
ltd limited
l-v low voltage
MAFF Ministry of Agriculture, Fisheries and Food
m metre, million
math(s) mathematical, mathematics
max maximum
Mb megabytes
Mc megacycle(s)
med medieval
mf medium frequency
mg milligram
MGD magnetogasdynamics
MHD magnetohydrodynamics
min minimum
min(s) minute(s)
misc miscellaneous
mm millimetre(s)
mod modern
mol wt molecular weight
mpg miles per gallon
mph miles per hour
mr magnetic resonance
MRS Medical Research Council
MSC Manpower Services Commission
ms(s) manuscript(s)
mth(s) month(s)
μ micro
mV millivolt(s)
N North(ern)
neg negative
nemr nuclear and electron magnetic resonance
NERC Natural Environment Research Council
neurochem neurochemistry, neurochemical
NHS National Health Service
nmr nuclear magnetic resonance
Northants Northamptonshire
Northumb Northumberland
Notts Nottinghamshire
Nov November
nqr nuclear quadruple resonance
n-sec nanosecond

NZ New Zealand
obj object
ODA Overseas Development Administration
OECD Organisation for Economic Development and Co operation
OR operational research
ord ordinary
org organic
oz(s) ounce(s)
p-g postgraduate
phil philosophy, philosophical
physiochem physiochemistry, physiochemical
physiol physiology, physiological
prehist prehistory, prehistorical
prelim(s) preliminary, preliminaries
p-sec picasecond
psychol psychology, psychological
p-t part time
qr quarter
qual qualification, qualifying, qualified
ref reference
req(s) requirement(s), required
rf radio frequency
RNA ribonucleic acid
Sat Saturday
sec secant
SED Scottish Education Department
SERC Science and Engineering Research Council
sociol sociology, sociological
soln solution
sp special
sp(p) specie(s)
sp ht specific heat
sq square
sq m(s) square miles(s)
stat(s) statistics, statistical
stereochem stereochemistry
STOL short take off and landing
subj subject
subsid subsidiary
tan tangent
TEFL teaching of English as a foreign language
temp temperature
thermochem thermochemistry, thermochemical
tlc thin layer chromatography
TOPS Training Opportunities Scheme
trad tradition
trans translation
u-g undergraduate
uhf ultra high frequency
uht ultra high temperature
UK United Kingdom
UKAEA United Kingdom Atomic Energy Authority
univ university
USA United States of America
USSR Union of Soviet Socialist Republics
uV ultra violet
v very, volt(s)
vac vacuum
vel velocity
vet veterinary
vhf very high frequency
vlf very low frequency
vol volume
v-p vapour pressure
W West
Warwicks Warwickshire
wl wavelength
wt weight
yd(s) yard(s)
yr(s) year(s)
zool zoology, zoological

Abbreviations for institutions

Aberdeen University of Aberdeen
Architectural Assoc S Architectural Association School of Architecture
Aston University of Aston in Birmingham
Bath University of Bath
Bath CHE Bath College of Higher Education
Belfast Queen's University of Belfast
Birmingham University of Birmingham
Birmingham Poly City of Birmingham Polytechnic
Bishop Grosseteste C Bishop Grosseteste College
Blackburn C Blackburn College
Bolton IHE Bolton Institute of Higher Education
Bradford University of Bradford
Bradford and Ilkley CC Bradford and Ilkley Community College
Bretton Hall CHE Bretton Hall College of Higher Education
Bridgwater C Bridgwater College
Brighton Poly Brighton Polytechnic
Bristol University of Bristol
Bristol Poly Bristol Polytechnic
Brunel Brunel University
Buckingham University of Buckingham
Buckinghamshire CHE Buckinghamshire College of Higher Education
Bulmershe CHE Bulmershe College of Higher Education
Camborne SMines Camborne School of Mines
Cambridge University of Cambridge
Cambridge Inst Ed Institute of Education, Cambridge
Cambridgeshire CA & T Cambridgeshire College of Arts and Technology
Central London Poly Polytechnic of Central London
Central SA & D Central School of Art and Design
Chelsea SA Chelsea School of Art
Chester C Chester College
Christ Church C Christ Church College
City City University
City of London Poly City of London Polytechnic
Cornwall CF & HE Cornwall College of Further and Higher Education
Coventry Poly Coventry (Lanchester) Polytechnic
Cranfield Cranfield Institute of Advanced Technology
Cranfield (Silsoe) Silsoe College
Crewe and Alsager CHE Crewe and Alsager College of Higher Education
Croydon C Croydon College
Derbyshire CHE Derbyshire College of Higher Education
Doncaster Met IHE Doncaster Metropolitan Institute of Higher Education
Dorset IHE Dorset Institute of Higher Education
Duncan of Jordanstone CA Duncan of Jordanstone College of Art
Dundee University of Dundee
Dundee CT Dundee College of Technology
Dunfermline CPE Dunfermline College of Physical Education
Durham University of Durham
Ealing CHE Ealing College of Higher Education

[illegible]

Essex University of Essex
Essex IHE Essex Institute of Higher Education
Exeter University of Exeter
Exeter C Exeter College
Farnborough CT Farnborough College of Technology
Garnett C Garnett College
Glasgow University of Glasgow
Glasgow CT Glasgow College of Technology
Glasgow SA Glasgow School of Art
Gloucestershire CAT Gloucestershire College of Arts and Technology
Gwent CHE Gwent College of Higher Education

[illegible]

Hertfordshire CA & D Hertfordshire College of Art and Design
Hertfordshire CHE Hertfordshire College of Higher Education
Huddersfield Poly The Polytechnic, Huddersfield
Hull University of Hull
Humberside CHE Humberside College of Higher Education
Keele University of Keele
Kent University of Kent at Canterbury
King Alfred's C King Alfred's College
Kingston Poly Kingston Polytechnic
La Sainte Union CHE La Sainte Union College of Higher Education
Lancashire Poly Lancashire Polytechnic
Lancaster University of Lancaster
Leeds University of Leeds
Leeds Poly Leeds Polytechnic
Leicester University of Leicester
Leicester Poly Leicester Polytechnic
Lincoln CT Lincoln College of Technology
Liverpool University of Liverpool
Liverpool IHE Liverpool Institute of Higher Education
Liverpool Poly Liverpool Polytechnic
London (Birkbeck) Birkbeck College, London
London (Cardiothoracic Inst) Cardiothoracic Institute, London
London (Courtauld Inst) Courtauld Institute of Art, London
London (Goldsmiths') Goldsmiths' College, London

[illegible]

London (Inst Commonwealth Studies) Institute of Commonwealth Studies, London
London (Inst Dermatology) Institute of Dermatology, London
London (Inst Ed) Institute of Education, London
London (Inst Historical Research) Institute of Historical Research, London
London (Inst Laryngology and Otology) Institute of Laryngology and Otology, London
London (Inst Latin American Studies) Institute of Latin American Studies, London

London (Inst Neurology) Institute of Neurology, London
London (Inst Obstetrics and Gynaecology) Institute of Obstetrics and Gynaecology, London
London (Inst Ophthalmology) Institute of Ophthalmology, London
London (Inst Orthopaedics) Institute of Orthopaedics, London
London (Inst Psychiatry) Institute of Psychiatry, London
London (Inst US Studies) Institute of United States Studies, London
London (Jews') Jews' College, London
London (KQC) King's College, London
London (LBS) London Business School
London (LSE) London School of Economics and Political Science
London (LSH & TM) London School of Hygiene and Tropical Medicine
London (Pharmacy) School of Pharmacy, London
London (Queen Mary) Queen Mary College, London
London (RHBC) Royal Holloway and Bedford New College, London
London (Royal Veterinary) Royal Veterinary College, London
London (SOAS) School of Oriental and African Studies, London
London (SSEES) School of Slavonic and East European Studies, London
London (UC) University College, London
London (Warburg) Warburg Institute, London
London (Westfield) Westfield College, London
London (Wye) Wye College, London
London (Charing Cross & Westminster) Charing Cross and Westminster Hospital Medical School, London
London (Guy's & St Thomas') United Medical Schools of Guy's and St Thomas's Hospitals, London
London (Middlesex) Middlesex Hospital Medical School, London
London (Royal Free) Royal Free Hospital School of Medicine, London
London (St Bartholomew's) St Bartholomew's Hospital Medical College, London
London (St George's) St George's Hospital Medical School, London
London (St Mary's) St Mary's Hospital Medical School, London
London C Furniture London College of Furniture
London C Printing London College of Printing
Loughborough Loughborough University of Technology
Luton CHE Luton College of Higher Education
Manchester Victoria University of Manchester
Manchester (UMIST) University of Manchester Institute of Science and Technology
Manchester Poly Manchester Polytechnic
Middlesex Poly Middlesex Polytechnic
Mid-Kent CH & FE Mid-Kent College of Higher and Further Education
Napier C Napier College
New C New College
Newcastle University of Newcastle upon Tyne
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Nottingham University of Nottingham
Open Open University
Oxford University of Oxford
Oxford Poly Oxford Polytechnic
Paisley CT Paisley College of Technology
Plymouth Poly Plymouth Polytechnic
Poly of Central London Polytechnic of Central London
Poly of North London Polytechnic of North London
Poly of Wales Polytechnic of Wales
Portsmouth Poly Portsmouth Polytechnic
Reading University of Reading
Robert Gordon's IT Robert Gordon s Institute of Technology
Roehampton IHE Roehampton Institute of Higher Education
Royal CA Royal College of Art
[illegible]
[illegible]
[illegible]
St Andrews University of St Andrews
St Helens CT St Helens College of Technology
St Mark & St John C College of St Mark and St John
St Martin's C St Martin's College
St Martin's SA St Martin's School of Art
St Mary's C St Mary's College
St Paul & St Mary's C College of St Paul and St Mary
Salford University of Salford
Scottish C Textiles Scottish College of Textiles
Seale-Hayne C Seale Hayne College
Sheffield University of Sheffield
Sheffield City Poly Sheffield City Polytechnic
Slough CHE Slough College of Higher Education
Southampton University of Southampton
Southampton IHE Southampton Institute of Higher Education
South Bank Poly Polytechnic of the South Bank
South Glamorgan IHE South Glamorgan Institute of Higher Education
Stirling University of Stirling
Strathclyde University of Strathclyde
Suffolk CH & FE Suffolk College of Higher and Further Education
Sunderland Poly Sunderland Polytechnic
Surrey University of Surrey
Sussex University of Sussex
Swindon C Swindon College
Teesside Poly Teesside Polytechnic
Thames Poly Thames Polytechnic
Thurrock TC Thurrock Technical College
Trent Poly Trent Polytechnic
Tresham C Tresham College
Trinity C Trinity College
Ulster University of Ulster
Wales (Aberystwyth) University College of Wales, Aberystwyth
Wales (Bangor) University College of North Wales, Bangor

Wales (Cardiff) University College, Cardiff
Wales (C of Medicine) University of Wales College of Medicine
Wales (Lampeter) St David's University College, Lampeter
Wales (Swansea) University College of Swansea
Wales (UWIST) University of Wales Institute of Science and Technology
Warwick University of Warwick
Watford C Watford College
Welsh CM & D Welsh College of Music and Drama
W Glamorgan IHE West Glamorgan Institute of Higher Education
W London IHE West London Institute of Higher Education
W Midlands CHE West Midlands College of Higher Education
W Scotland AgC West of Scotland Agricultural College
W Sussex IHE West Sussex Institute of Higher Education
Wimbledon SA Wimbledon School of Art
Wolverhampton Poly The Polytechnic, Wolverhampton
Worcester CHE Worcester College of Higher Education
Worcester TC Worcester Technical College
York University of York

Research facilities and courses

ourse advertisement

Chapter headings and numbers

I Humanities and social sciences

II Biological, health and agricultural sciences

esearch facilities and courses: Humanities and social sciences

r institution addresses and further information sources, see the 'Institutions' section, rting on page 479.

1 Anthropology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which propose to carry out research. Information about the periods of study required for research degre given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgr ate studies' section.

1:1 Belfast, *Social anthropology*, MA/PhD

1:2 Cambridge, *Physical anthropology*, MLitt/MSc/PhD; supervision available; facilities for rese in various branches of biol anthropology; research interests inc: genetic structure of hu populations, extent and functions of genetic variation in man; biometric, ecological behavioural studies of living and fossil primates; hominid growth and evolution; hominid ev tionary ecol; study of excavated skeletal remains (to throw light on disease, nutrition and o conditions of life in past populations); analysis of anthropometric and psychometric characte effects of assortative mating, migration and genotype-environment interactions; biol correlat reproductive performance; facilities for radiographic, serological, biochem, biometrical morphological research; human skeletal material available inc Pearson and Duckworth Co tions, over 15,000 specimens from Neolithic to recent date, representative series of prin skeletons and collection of casts of fossil primates and fossil hominids. Contact Dr CGN Ma Taylor

1:3 Cambridge, *Social anthropology*, MLitt/MSc/PhD

1:4 Durham, *Anthropology*, MA/MPhil/MSc/PhD; supervision available, research interests inc: *so anthropology:* social change in developing countries with sp ref to hunter-gatherer and pea communities, art, religion and symbolism, nomadic societies, psychol anthropology; regi interests inc Carribean, Middle E and Islamic countries esp Iran, S and SE Asia, Africa, N Guinea and Australia; *biol anthropology:* hominid palaeoecology and evolution, demography population genetics with sp ref to British Isles, primate evolution and behavioural ecology. Con Professor A Bilsborough

1:5 East Anglia, *Sociology and social anthropology*, MPhil/PhD

1:6 Edinburgh, *Social anthropology*, MPhil/PhD

1:7 Hull, *Sociology and social anthropology*, MPhil/PhD

1:8 Keele, *Sociology and social anthropology*, MA/PhD

1:9 Kent, *Sociology and social anthropology*, MPhil/PhD

1:10 London (Goldsmiths'), *Social anthropology*, MPhil/PhD

1:11 London (LSE), *Social anthropology*, MPhil/PhD

1:12 London (SOAS), *Anthropology and sociology*, MPhil/PhD

1:13 London (UC), *Anthropology*, MPhil/PhD

1:14 Manchester, *Social anthropology*, MA(Econ)/PhD

1:15 Newcastle, *Social studies*, MA/PhD

1:16 Oxford, *Biological anthropology*, MSc/DPhil

1:17 Oxford, *Ethnology and prehistory*, MLitt/DPhil

1:18 Oxford, *Social anthropology*, MLitt/MSc/DPhil *See page 48*

1:19 St Andrews, *Social anthropology*, MPhil/PhD

1:20 Salford, *Sociology and anthropology*, MA/MSc/PhD

1:21 Stirling, *Sociology*, MSc/PhD

1:22 Sussex, *Social anthropology*, MPhil/DPhil

1:23 Ulster, *Sociology and social anthropology*, MPhil/DPhil

1:24 Wales (Swansea), *Sociology and anthropology*, MSc(Econ)/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

Belfast, *Social anthropology,* MA

Belfast, *Social anthropology (applied anthropology),* MA

Belfast, *Social anthropology (community studies in Western Europe),* MA

Belfast, *Social anthropology (ethnomusicology),* MA

Bristol, *Religion and mythology in the ancient world,* MA

Cambridge, *Biological anthropology,* MPhil, 1 yr f-t, emphasis on research methods, *course content* human variation, population structure, ecology and adaptation, primatology, palaeoanthropology, research methods, assessment by thesis, essays, oral exam Contact Dr CGN Mascie-Taylor

Cambridge, *Social anthropology,* MPhil

[illegible]

Durham, *Biological anthropology,* MSc, 1 yr f t, *topics available inc* hominid evolution and palaeoecology, human population diversity and adaptation, human genetics primate ecology and evolution, field work procedures and analytical techniques, exam and dissertation Contact [illegible]

[illegible]

Oxford, *Anthropological archaeology,* MSt

Oxford, *Social anthropology,* MPhil/MSt *See page 48*

St Andrews, *Linguistics and social anthropology,* MLitt

Sussex, *Social anthropology,* MA

Certificates and diplomas

Belfast, *Social anthropology,* Diploma

[illegible]

Which course?

See chapter headings on pages 42 and 43 for cognate subjects

Archaeology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study req[illegible]d for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section

Belfast, *Archaeology*, MA/PhD
Birmingham, *Ancient history and archaeology*, MA/MLitt/PhD
Bradford, *Physics*, MPhil/PhD

[illegible]

N Staffs Poly, *Computer applications in archaeology*, MPhil/PhD (CNAA)
Nottingham, *Archaeology*, MPhil/PhD
Open, *Roman Britain*, BPhil/MPhil/PhD
Oxford, *Archaeology*, MLitt/DPhil

[illegible]

Wales (Lampeter), *Archaeology*, MA/PhD
York, *Archaeology*, MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A researc (normally lasting three months) with submission of a written report, dissertation or thesis is a part of these courses.

2:36 **Birmingham,** *Archaeological practice,* MA
2:37 **Birmingham,** *Industrial archaeology,* MSocSc/Diploma
2:38 **Birmingham,** *Medieval archaeology,* MA
2:39 **Bradford,** *Scientific methods in archaeology,* MA/Diploma
2:40 **Cambridge,** *Archaeology,* MPhil
2:41 **Durham,** *Early man and the environment,* MA *See page 51*
2:42 **Durham,** *Later Roman and early medieval archaeology,* MA *See page 51*
2:43 **Durham,** *Roman archaeology,* MA *See page 51*
2:44 **Edinburgh,** *Archaeology,* MLitt
2:45 **Edinburgh,** *Classical archaeology,* MLitt/MSc/Diploma
2:46 **Glasgow,** *Celtic archaeology,* MPhil
2:47 **Liverpool,** *Classical archaeology,* BPhil
2:48 **Liverpool,** *Prehistoric archaeology,* BPhil
2:49 **London (Inst Archaeol),** *Archaeology,* MA/MSc
2:50 **London (Inst Archaeol),** *Bioarchaeology,* MSc
2:51 **London (Inst Archaeol),** *Field and analytical methods and techniques in archaeology,* MA
2:52 **London (Inst Archaeol),** *Museology,* MA
2:53 **London (SOAS),** *History of art/art and archaeology,* MA
2:54 **London (UC),** *Archaeology of Greece,* MA
2:55 **London (UC),** *Medieval archaeology,* MA
2:56 **Newcastle,** *Archaeology,* MPhil
2:57 **Newcastle,** *Archaeology,* MA, 1 yr f-t: 2 yrs p-t; *course content:* 1 of: prehistoric Eu Britain; Roman frontier studies (frontiers of Roman Empire, N frontier of Roman I archaeology of Roman Empire (Roman art and architecture, study of a province c provinces); other coursework possible; dissertation; 1 f-t: heritage, management and Contact Professor PJ Fowler
2:58 **Newcastle,** *Greek archaeology,* MA
2:59 **Nottingham,** *Archaeology,* MA
2:60 **Nottingham,** *Viking studies,* MA
2:61 **Oxford,** *Anthropological archaeology,* MSt
2:62 **Oxford,** *Archaeology,* MSt
2:63 **Oxford,** *Classical archaeology,* MPhil/MSt
2:64 **Oxford,** *European archaeology,* MPhil/MSt
2:65 **Oxford,** *Prehistoric archaeology,* MPhil/MSt
2:66 **Reading,** *Archaeology,* MA
2:67 **Sheffield,** *Ancient history and classical archaeology,* MA
2:68 **Sheffield,** *Archaeology and prehistory,* MA, 1 yr f-t; *course content:* archaeological the method, and any 2 of: Palaeolithic and Mesolithic archaeology, later prehist of Euro prehist of Mediterranean and Near E, British prehist; assessment of coursework in lab tec 2 theoretical and 1 practical exam paper, dissertation. Contact Professor K Branigan
2:69 **Sheffield,** *Environmental archaeology and palaeoeconomy,* MA
2:70 **Sheffield,** *Palaeopathology and funerary archaeology,* MA, 1 yr f-t; course provides intens to study of human skeletal remains, and to methods and techniques employed in studying populations; practical instruction in sexing, ageing and palaeopathology of human remai of burial practices in early Britain, stat and anthropological approaches to palaeodem assessment of coursework in lab techniques, 2 theoretical and 1 practical exam paper, diss Contact Professor K Branigan
2:71 **Southampton,** *Archaeological method,* MA
2:72 **Southampton,** *Archaeological science,* MSc
2:73 **Wales (Bangor),** *Marine archaeology,* MSc/Diploma
2:74 **Wales (Swansea),** *Egyptology,* MA

5 **York,** *Medieval British archaeology,* MA
6 **York,** *Medieval studies: age of Sutton Hoo,* MA/Diploma

Certificates and diplomas

7 **Bradford,** *Archaeological studies,* Diploma
8 **Cambridge,** *Classical archaeology,* Diploma
9 **Durham,** *Archaeological conservation,* Diploma *See page 51*
0 **Leicester,** *Post-excavation studies,* Diploma, 1 yr f t, aims to provide students with practical basis for studying material from excavations Contact Registrar (Higher Degrees)
1 **London (UC),** *Classical archaeology Greece,* Diploma
2 **St Andrews,** *Maritime studies,* Diploma

Addresses of institutions

are on pages 479–508

3 Archive and museum studies, palaeography

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in w propose to carry out research. Information about the periods of study required for research given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'P ate studies' section.

3:1 **Cambridge,** *Anglo-Saxon, Norse and Celtic,* MLitt/PhD
3:2 **Leicester,** *Museum studies,* MPhil/PhD
3:3 **London (KQC),** *Palaeography,* MPhil/PhD
3:4 **London (UC),** *Archive studies,* MPhil/PhD
3:5 **Manchester,** *Palaeography,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A resea (normally lasting three months) with submission of a written report, dissertation or thesis is a part of these courses

3:6 **Belfast,** *Modern history,* MA
3:7 **Birmingham,** *Cuneiform studies,* MA
3:8 **Birmingham,** *Fine arts,* MA
3:9 **Birmingham Poly,** *History of art and design,* MA/Diploma (CNAA)
3:10 **Cambridge,** *Archaeology,* MPhil
3:11 **Cambridge,** *Social anthropology,* MPhil
3:12 **City,** *Museums and gallery administration,* MA
3:13 **College of Librarianship (Wales),** *Education for library, information and archival stud* (Wales)
3:14 **Leicester,** *Museum studies,* MA/MSc/Certificate, 1 yr f-t; plus for MA/MSc addnl museum employment while preparing dissertation; *course content:* hist backgroun organisation, buildings and eqpt, collections and exhibits, museum activities, practi academic and museographic studies in 1 of: archaeology, geol, natural hist, local hi science, hist of technology Contact Registrar (Higher Degrees)
3:15 **Liverpool,** *Archive administration,* MA
3:16 **Liverpool,** *Medieval studies,* MA
3:17 **London (Inst Archaeol),** *Museology,* MA
3:18 **London (UC),** *Archive studies,* MA
3:19 **London (UC),** *Overseas archive studies,* MA
3:20 **Loughborough,** *Archive, library and information studies and education,* MA
3:21 **Loughborough,** *Archives,* MA
3:22 **St Andrews,** *National Trust for Scotland studies,* MLitt

Certificates and diplomas

3:23 **London (Inst Ed),** *Museum studies: art and design,* Diploma
3:24 **London (UC),** *Archive studies,* Diploma
3:25 **Manchester,** *Art gallery and museum studies,* Diploma
3:26 **Wales (Aberystwyth),** *Archive administration,* Diploma
3:27 **Wales (Bangor),** *Archive administration,* Diploma

Art design and fine art

[illegible]

4:129 **Royal CA,** *Photography*, MA
4:130 **Royal CA,** *Printmaking*, MA
4:131 **Royal CA,** *Product planning*, MA
4:132 **Royal CA,** *Sculpture*, MA
4:133 **Royal CA,** *Tapestry*, MA
4:134 **Royal CA,** *Textile design*, MA
4:135 **Royal CA,** *Visual Islamic studies*, MA
4:136 **St Andrews,** *Gallery studies*, MLitt
4:137 **St Andrews,** *History of art*, MLitt/Diploma
4:138 **St Andrews,** *National Trust for Scotland studies*, MLitt
4:139 **St Martin's SA (London),** *Fashion/textiles*, MA
4:140 **South Glamorgan IHE,** *Ceramics*, MA (CNAA)
4:141 **South Glamorgan IHE,** *Fine art*, MA (CNAA)
4:142 **Sussex,** *History of art*, MA
4:143 **Trent Poly,** *Knitwear and knitted fabric design*, MA (CNAA)
4:144 **Ulster,** *Fine art*, MA
4:145 **Wales (Aberystwyth),** *Visual art*, MA
4:146 **Wimbledon SA,** *Printmaking*, MA/Diploma (CNAA)

Certificates and diplomas

4:147 **Birmingham Poly,** *Professional studies in education (art and design)*, Diploma
4:148 **Bretton Hall CHE,** *Art education*, Advanced Diploma
4:149 **Brighton Poly,** *Creative embroidery*, Diploma
4:150 **Bristol Poly,** *Fine art*, Diploma
4:151 **Bristol Poly,** *Graphic design*, Diploma
4:152 **Central SA & D (London),** *Printmaking*, Diploma
4:153 **Central SA & D (London),** *Textile design*, Diploma
4:154 **City,** *Arts administration*, Diploma
4:155 **Duncan of Jordanstone CA (Dundee),** *Design*, Diploma
4:156 **Duncan of Jordanstone CA (Dundee),** *Drawing and painting*, Diploma
4:157 **Duncan of Jordanstone CA (Dundee),** *Sculpture*, Diploma
4:158 **Essex IHE,** *Art education*, Diploma (CNAA)
4:159 **Glasgow SA,** *Art and design*, Diploma
4:160 **Hertfordshire CA & D,** *Art therapy*, Diploma (CNAA)
4:161 **Hertfordshire CHE (Watford),** *Teaching of art*, Diploma
4:162 **King Alfred's C (Winchester),** *Art in education*, Diploma (CNAA)
4:163 **Leeds,** *Textile design*, Diploma
4:164 **Leeds Poly,** *Art history*, Diploma
4:165 **London (Courtauld Inst),** *Conservation of paintings*, Diploma
4:166 **London (Courtauld Inst),** *Conservation of textiles*, Diploma
4:167 **London (Goldsmiths'),** *Art education*, Diploma
4:168 **London (Goldsmiths'),** *Art therapy*, Diploma
4:169 **London (Goldsmiths'),** *Ceramics*, Diploma
4:170 **London (Goldsmiths'),** *Craft, design and technology education*, Diploma
4:171 **London (Goldsmiths'),** *Textile art*, Diploma
4:172 **London (Inst Ed),** *Art and design education*, Diploma
4:173 **London (Inst Ed),** *Design education with special reference to craft and technology*, Diploma
4:174 **London (Inst Ed),** *Museum studies: art and design*, Diploma
4:175 **London (UC),** *Fine art*, Higher Diploma
4:176 **London C Furniture,** *Design of equipment for disability*, Diploma (CNAA)
4:177 **London C Printing,** *Design and media technology*, Diploma (CNAA)
4:178 **Manchester,** *Art gallery and museum studies*, Diploma
4:179 **New C (Durham),** *Craft design and technology*, Diploma (Durham)
4:180 **Oxford,** *History of art*, Diploma

4 181 [illegible]
4 182 [illegible]
4 183 [illegible]
4 184 [illegible]
4 185 [illegible]
4 186 **Sheffield** *Art therapy* Diploma
4 187 **Sheffield City Poly,** *Criticism and the visual arts* Diploma
4 188 **Sheffield City Poly,** *Design technology* Diploma
4 189 **Trent Poly,** *Craft design and technology* Diploma
4 190 **Ulster,** *Art and design* Diploma
4 191 **Wales (Aberystwyth),** *Visual art* Diploma
4 192 **Warwick,** *History of art* Diploma
4 193 **West Glamorgan IHE (Swansea),** *Design and technology* Diploma (Wales)

5 Business, administrative and management studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which th propose to carry out research. Information about the periods of study required for research degrees given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgrad ate studies' section.

5:1 **Aston,** *Industrial studies,* MPhil
5:2 **Aston,** *Management,* MPhil/PhD
5:3 **Bath,** *Management,* MPhil/PhD; research programme covering most areas of management; cu rent staff interests inc: accounting and finance, business policy, decision analysis, industrial ar managerial economics, marketing, manpower studies and industrial relations, OR, organisati analysis and development; p-g projects range from research into individual organisations' manag ment/admin problem to comparative international studies; all students take training course research methods. Contact Mrs SJ Clark *See page 69*
5:4 **Belfast,** *Business studies,* PhD
5:5 **Birmingham,** *Industrial economics and business studies,* MSocSc/MPhil/PhD
5:6 **Birmingham Poly,** *Business and management studies,* MPhil/PhD (CNAA)
5:7 **Bradford,** *Industrial technology,* MPhil/PhD
5:8 **Bradford,** *Management and administration,* MPhil/PhD
5:9 **Bradford,** *Technological management,* MPhil/PhD
5:10 **Brighton Poly,** *Management, business studies, finance and accountancy,* MPhil/PhD
5:11 **Bristol Poly,** *Business studies,* MPhil/PhD (CNAA)
5:12 **Bristol Poly,** *Management studies,* MPhil/PhD (CNAA)
5:13 **Brunel,** *Management studies,* MPhil/PhD
5:14 **Buckingham,** *Business studies,* MPhil/DPhil
5:15 **City,** *Management studies,* MPhil/PhD; supervision available for research in following fields; son specific projects named: *management accountancy and financial management:* profit definition ar measurement in relation to inflation; *managerial economics:* long-term marginal cost pricin public policies on competition and pricing in large scale; *insurance studies:* register of insuran records in public and private hands; *portfolio investment management:* security price data ban behaviour of London stock market prices; *marketing:* international business operations; role supervisors in industrial organisations, study of conditions promoting change in catering industr *business planning and strategy:* simulation model to assist decisions on diversification; *OR:* critic path method and conceptually related techniques; *business law:* international econ and trade lav international sale of goods; *systems analysis:* information retrieval techniques; file design an organisation; *internal auditing:* control of large organisations, internal auditing of real-time con puter systems. Contact Mrs E Taylor
5:16 **City of London Poly,** *Business law,* MPhil/PhD (CNAA)
5:17 **City of London Poly,** *Business studies,* MPhil/PhD (CNAA)
5:18 **City of London Poly,** *Insurance and banking,* MPhil/PhD (CNAA)
5:19 **City of London Poly,** *Marketing,* MPhil/PhD (CNAA)
5:20 **Dorset IHE (Poole),** *Business management,* MPhil/PhD (CNAA)
5:21 **Dorset IHE (Poole),** *Catering and hotel administration,* MPhil/PhD (CNAA)
5:22 **Dorset IHE (Poole),** *Tourism and field sciences,* MPhil/PhD (CNAA)
5:23 **Durham,** *Business management,* MA/PhD
5:24 **Edinburgh,** *Business studies,* MPhil/PhD
5:25 **Glasgow,** *Management studies,* MLitt/PhD
5:26 **Gwent CHE (Newport),** *Management and business studies,* MPhil/PhD (CNAA)
5:27 **Hatfield Poly,** *Business and social studies,* MPhil/PhD (CNAA)
5:28 **Heriot-Watt,** *Business organisation,* MLitt/PhD; supervision available, research interests: *g management:* strategic issues in various industrial sectors; strategic success factors in medium-siz

companies organisational implications of new technology flexible integrated manufacturing [illegible]

of new technology upon industrial relations in telecommunications industry enhanced eng education development of 1st stage in life cycle of a small business *marketing* marketing planning and

5 29 **Huddersfield Poly,** *Catering studies* MPhil/PhD (CNAA)
5 30 **Huddersfield Poly,** *Economic and marketing studies* MPhil/PhD (CNAA)
5 31 **Huddersfield Poly,** *Management and administrative studies* MPhil/PhD (CNAA)
5 32 **Hull,** *Management systems and sciences* MSc/MPhil/PhD
5 33 **Kent,** *Industrial relations,* MPhil/PhD
5 34 **Kent,** *Management science,* MPhil/PhD
5 35 **Lancashire Poly,** *Management studies,* MPhil/PhD (CNAA)
5 36 **Lancaster,** *Management learning* MPhil/PhD
5 37 **Lancaster,** *Marketing* MPhil/PhD
5 38 **Lancaster,** *Operational research* MPhil/PhD
5 39 **Lancaster,** *Systems,* MPhil/PhD
5 40 **Leeds,** *Management studies* MPhil/PhD
5 41 [illegible]
5 42 [illegible]
5 43 [illegible]
5 44 [illegible]
5 45 [illegible]
5 46 [illegible]
5 47 [illegible]
5 48 [illegible]
5 49 **Manchester (UMIST),** *Management sciences* MSc/PhD
5 50 **Manchester Poly,** *Management and business* MPhil/PhD (CNAA)
5 51 [illegible]
5 52 [illegible]
5 53 [illegible]
5 54 [illegible]
5 55 [illegible]
5 56 [illegible]
5 57 [illegible]
5 58 [illegible]
5 59 [illegible]
5 60 [illegible] MPhil/DPhil [illegible]
5 61 [illegible]
5 62 [illegible]
5 63 [illegible]
5 64 [illegible]
5 65 [illegible]
5 66 **Poly of Central London,** *Marketing,* MPhil/PhD (CNAA)
5 67 **Poly of North London,** *Business studies,* MPhil/PhD (CNAA)
5 68 **Poly of Wales,** *Business and administrative studies,* MPhil/PhD (CNAA)
5 69 **Portsmouth Poly,** *Management studies* MPhil/PhD
5 70 **St Andrews,** *Management sciences and studies,* MPhil/PhD

5:71 **Salford,** *Business and administration,* MPhil/MSc/PhD
5:72 **Salford,** *Collaborative studies,* MSc/PhD
5:73 **Sheffield City Poly,** *Business studies,* MPhil/PhD (CNAA)
5:74 **Sheffield City Poly,** *Hotel and catering studies and home economics,* MPhil/PhD (CNAA)
5:75 **Sheffield City Poly,** *Management studies,* MPhil/PhD (CNAA)
5:76 **Southampton,** *Accounting and management science,* MPhil/PhD
5:77 **South Bank Poly,** *Management, economic and industrial studies,* MPhil/PhD (CNAA)
5:78 **Stirling,** *Business studies,* MSc/PhD *See page 68*
5:79 **Stirling,** *Management science,* MSc/PhD; supervision available in areas of: management of technological innovation, project management; appraisal and selection of industrial research projects; energy management in industry and commerce; management of waste disposal and recycling inc radioactive and other hazardous wastes, management of water resources and food processing; production scheduling; industrial reliability, availability, productivity; management of telecommunications, technology in banking; management of higher education; applications of simulation and math programming, applications of microcomputers in management. Contact Professor DH Allen
5:80 **Strathclyde,** *Administration,* MSc/PhD
5:81 **Strathclyde,** *Hotels and catering,* MSc/PhD
5:82 **Strathclyde,** *Industrial relations,* MSc/PhD
5:83 **Strathclyde,** *Marketing,* MSc/PhD
5:84 **Strathclyde,** *Office organisation,* MSc/PhD
5:85 **Sunderland Poly,** *Business management,* MPhil/PhD (CNAA)
5:86 **Surrey,** *Hotel, catering and tourism management,* MPhil PhD
5:87 **Sussex,** *Labour studies,* MPhil/DPhil
5:88 **Teesside Poly,** *Administrative and social studies,* MPhil/PhD (CNAA)
5:89 **Teesside Poly,** *Business and professional studies,* MPhil/PhD (CNAA)
5:90 **Teesside Poly,** *Management,* MPhil (CNAA)
5:91 **Thames Poly,** *Business administration,* MPhil/PhD (CNAA)
5:92 **Trent Poly,** *Business studies,* MPhil/PhD (CNAA)
5:93 **Trent Poly,** *Management studies,* MPhil/PhD (CNAA)
5:94 **Ulster,** *Business and management,* MPhil/DPhil
5:95 **Wales (Cardiff),** *Industrial relations and management studies,* MScEcon/PhD
5:96 **Wales (Swansea),** *Management science and statistics,* MSc/PhD; supervision available, current research interests inc systems dynamics, combinatorial optimisation, multi-objective decision making, production planning, inventory control, management information systems, applied probability and point processes, stat computing, applied stats esp in biol and medical areas. Contact Dr K Dowsland
5:97 **Wales (UWIST),** *Business administration and accountancy,* MSc(Econ)/PhD
5:98 **Wales (UWIST),** *Management, engineering production and economics,* MSc/PhD
5:99 **Warwick,** *Industrial and business studies,* MA/MSc/MPhil/PhD
5:100 **West Glamorgan IHE (Swansea),** *Business studies and management,* MPhil/PhD (CNAA)
5:101 **Wolverhampton Poly,** *Business and management studies,* MPhil/PhD (various univs)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research pr (normally lasting three months) with submission of a written report, dissertation or thesis is norm a part of these courses

5:102 **Aston,** *Business administration,* MBA/Diploma
5:103 **Aston,** *Personnel management,* MSc/Diploma
5:104 **Bath,** *Business administration,* MSc, 1c yr f-t, focus on central corporate issues of business pc and strategy, *core studies* business policy inc decision analysis and business forecast managerial economics, financial management, marketing; entrepreneurship team-based proj Contact Mrs SJ Clark *See page 69*
5:105 **Belfast,** *Business administration,* MBA

5 106 **Belfast,** *Business studies* MSc(Mgt)
5 107 **Birmingham,** *Business administration* MBA
5 108 **Birmingham,** *Industry, employment and planning,* MSocSc
5 109 **Birmingham,** *Leisure and tourism* MSocSc
5 110 **Bradford,** *Business administration,* MBA
5 111 **Brighton Poly,** *Management studies,* MBA/DMS (CNAA)
5 112 **Brunel,** *Industrial relations,* MA/Diploma
5 113 **Brunel,** *Management studies,* MBA
5 114 **Brunel,** *Management studies,* MSc/Diploma
5 115 **Brunel,** *Project management* MSc
5 116 **City,** *Business administration* MBA 1c yr f t 2 yrs p t preparation for career in commercial and industrial management also p g education for entry to admin employment in specialist area or for

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tional commercial and human aspects of subj computing fundamentals data processing

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5 126 **Durham,** *Management studies,* MSc
5 127 **Ealing CHE,** *Manpower studies,* MA
5 128 **Edinburgh,** *Business administration* MBA/Diploma *See page 70*
5 129 **Edinburgh,** *Business administration* MBA/Diploma *See page 70*
5 130 **Essex,** *Business economics* MA
5 131 **Exeter,** *International business legal studies,* LLM
5 132 **Glasgow,** *Engineering management* MEng
5 133 **Glasgow,** *Industrial relations,* MPhil 1c yr f t 2c yrs p t in Dept of Social and Econ Research training for students seeking industrial relations career or further academic study in field, *core course* industrial relations *options* from labour markets industrial sociol labour law labour hist personnel relations industrial democracy current issues in industrial relations assessment by essays examinations and dissertation Contact Dr Charles Woolfson
5 134 **Glasgow,** *Management studies* MBA
5 135

5 136 MBA
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5 140 **Kent,** *Management,* MA
5 141 **Kent,** *Management science,* MA/Diploma
5 142 **Kingston Poly,** *General management* MBA (CNAA)

5:143 **Lancashire Poly,** *Management (by action learning),* MSc (CNAA)
5:144 **Lancaster,** *Business analysis,* MA, 1c yr f-t (hons deg or equiv professional qual req); *course content:* handling and solving of problems; foundation material inc: intro economics, financial analysis, theories of organisations, marketing theory and practice, quantitative methods, computing; marketing management, management and financial accounting, operations management, management information systems, OR, industrial relations; case studies and exercises, project (ESRC, TOPS). **Contact** Mrs ME McClintock
5:145 **Lancaster,** *Management learning,* MA
5:146 **Lancaster,** *Marketing,* MA
5:147 **Lancaster,** *Marketing education,* MA
5:148 **Lancaster,** *Operational research,* MSc/Diploma
5:149 **Lancaster,** *Systems in management,* MA *See page 73*
5:150 **Leeds,** *Management studies,* MBA
5:151 **Leicester Poly,** *Business administration,* MBA
5:152 **Leicester Poly,** *Human resource management,* MA (CNAA)
5:153 **London (Imperial),** *Management science,* MSc/DIC
5:154 **London (LBS),** *Business administration,* MSc
5:155 **London (LSE),** *Industrial relations and personnel management,* MSc
5:156 **Loughborough,** *Business administration,* MBA
5:157 **Loughborough,** *Labour market studies,* MA
5:158 **Loughborough,** *Recreation management,* MSc/ALUT
5:159 **Manchester,** *Business administration,* MBA/MBSc/Diploma
5:160 **Manchester,** *Industrial relations,* MA(Econ)/Diploma
5:161 **Manchester (UMIST),** *Management sciences,* MSc
5:162 **Manchester (UMIST),** *Marketing,* MSc
5:163 **Manchester Poly,** *Countryside management,* MSc/Diploma (CNAA)
5:164 **Manchester Poly,** *Labour politics,* MA (CNAA)
5:165 **Manchester Poly,** *Management (by action learning),* MSc (CNAA)
5:166 **Middlesex Poly,** *Business administration,* MBA (CNAA)
5:167 **Newcastle,** *Industrial management,* MBA
5:168 **NE London Poly,** *Advanced management,* MSc (CNAA)
5:169 **NE London Poly,** *Business administration,* MBA
5:170 **Oxford,** *Management (industrial relations),* MSc *See page 71*
5:171 **Oxford,** *Management studies,* MPhil *See page 71*
5:172 **Poly of Central London,** *Business administration,* MBA (CNAA)
·173 **Poly of Central London,** *Manpower studies,* MA (CNAA)
.174 **Poly of North London,** *Leisure and recreation studies,* MA (CNAA)
5:175 **Reading,** *International business and economic development,* MA
5:176 **Reading,** *International business and economic integration,* MA
5:177 **Reading,** *International business and international financial management,* MA
5:178 **Reading,** *Project management,* MSc/Diploma
5:179 **Royal CA,** *Marketing and export studies,* MA
5:180 **St Andrews,** *Management, economics, politics,* MLitt/MPhil/Diploma
5:181 **Salford,** *Employment studies,* MSc/Diploma
5:182 **Salford,** *Marketing and a foreign language,* MSc, 2 yrs p-t (deg in French, German or Spanish req); programme within modular studies MA/MSc scheme (see Science, technology and society); designed for those with foreign lang qual that they wish to put to practical use in career in marketing at home or abroad; *langs available:* French, Spanish, German; *course content:* 3 modules in marketing, 3 lang-related modules; exam and dissertation. **Contact** Administrative Officer, Department of Modern Languages
5:183 **Sheffield,** *Business studies,* MBA/Diploma
5:184 **Sheffield,** *Leisure management,* MA
5:185 **Sheffield City Poly,** *Management information systems,* MSc (CNAA)
5:186 **Sheffield City Poly,** *Management studies,* MSc/MBA (CNAA)
5:187 **Sheffield City Poly,** *Organisation development,* MSc (CNAA)
5:188 **Slough CHE,** *Personnel management,* MSc (CNAA)

5 189 **Southampton,** *Management sciences,* MSc/Diploma
5 190 **South Bank Poly,** *Property development (project management),* MSc
5 191 **Stirling,** *Business administration* MBA/Diploma
5 192 **Stirling,** *Entrepreneurial studies,* MSc/Diploma
5 193 **Strathclyde,** *Business administration,* MBA/Diploma *See pages 72 and 74*
5 194 **Strathclyde,** *Business legal studies* LLM
5 195 **Strathclyde,** *Industrial relations* MSc
5 196 **Strathclyde,** *Marketing,* MSc/Diploma
5 197 **Strathclyde,** *Marketing for industrialising countries,* MCom/Diploma *See page 72*
5 198 **Strathclyde,** *Organisational analysis,* MSc/Diploma
5 199 **Strathclyde,** *Personnel management,* MSc/Diploma
5 200 **Strathclyde,** *Tourism,* MSc/Diploma
5 201 [illegible] *See page 71*
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5 204 [illegible] *See page 71*
5 205 **Surrey,** *Tourism studies,* MSc/Diploma *See page 71*
5 206 **Sussex,** *Labour studies,* MA
5 207 **Thames Poly,** *Management studies,* MA (CNAA)
5 208 **Ulster,** *Business administration,* MBA
5 209 **Ulster,** *International business and industrial development* MBA
5 210 **Ulster,** *Leisure studies* MA
5 211 **Ulster,** *Manpower studies,* MSc
5 212 **Ulster,** *Manufacturing management* MSc/Diploma
5 213 **Ulster,** *Product development,* MSc
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5 219 **Warwick,** *Industrial and business studies,* MBA
5 220 **Warwick,** *Industrial relations* MA *See page 74*
5 221 **Warwick,** *Management science and operational research,* MSc *See page 74*

Certificates and diplomas

5 222 **Belfast,** *Business administration,* Diploma
5 223 **Birmingham,** *Business administration* Diploma
5 224 **Birmingham,** *Commerce,* Diploma
5 225 [illegible]
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5 237 [illegible] Diploma
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5:241 City, *Engineering management,* Diploma
5:242 City of London Poly, *Business studies,* Certificate
5:243 City of London Poly, *Management studies,* DMS (CNAA)
5:244 Cornwall CF & HE, *Management studies,* DMS (CNAA)
5:245 Coventry (Lanchester) Poly, *Employment relations,* Diploma
5:246 Coventry (Lanchester) Poly, *Management studies,* DMS (CNAA)
5:247 Crewe and Alsager CHE, *Business studies,* Certificate
5:248 Croydon C, *Bilingual secretarial studies,* Diploma
5:249 Croydon C, *Management studies,* DMS (CNAA)
5:250 Croydon C, *Personal assistants' studies,* Diploma
5:251 Derbyshire CHE (Derby), *Bilingual secretarial studies,* Diploma
5:252 Derbyshire CHE (Derby), *Management studies,* DMS (CNAA)
5:253 Doncaster Met IHE, *Management studies,* DMS (CNAA)
5:254 Dorset IHE (Poole), *Management studies,* DMS (CNAA)
5:255 Dundee CT, *Management studies,* DMS (CNAA)
5:256 Dunfermline CPE, *Recreation and leisure practice,* Diploma (CNAA)
5:257 Ealing CHE, *Management studies,* DMS (CNAA)
5:258 Ealing CHE, *Personnel management,* Diploma
5:259 Ealing CHE, *Secretarial and European language studies,* Diploma
5:260 Ealing CHE, *Secretarial and management studies,* Diploma
5:261 Essex IHE, *Management studies (education),* DMS (CNAA)
5:262 Exeter C, *Management studies,* DMS (CNAA)
5:263 Farnborough CT, *Management studies,* DMS (CNAA)
5:264 Glasgow CT, *Industrial administration,* Diploma (SCOTVEC), 1 yr f-t (deg, HND or equiv qua req); vocational education for career in marketing or production management; *course inc:* busines environment, business stats, financial aspects of management, organisational behaviour, market ing, management of manpower, operations management. Contact Admissions Officer
5:265 Glasgow CT, *Management studies,* DMS (CNAA), 2 yrs p-t (deg or equiv qual req, candidate over 27 with approp experience may be admitted); *course content: stage 1:* applied economics organisations and management I and II; quantitative techniques; accounting and finance for managers I; law; human resource management; management of information technology I; *stage 2* marketing I; operations I; management of information technology II; business policy; project options in 1 subj from accounting and finance for managers II; public sector accounting; option i 2 subjs from operations management II; marketing II; management and admin in public secto risk management; business modelling; international business. Contact Admissions Officer
5:266 Glasgow CT, *Personnel management,* Diploma (SCOTVEC)
5:267 Gloucestershire CAT (Gloucester), *Management studies,* DMS (CNAA)
5:268 Gwent CHE (Newport), *Management studies,* DMS (CNAA)
5:269 Gwent CHE (Newport), *Management studies (human resource management),* Diploma (Wales)
5:270 Gwent CHE (Newport), *Management studies (personnel management),* Diploma
5:271 Harlow C, *Management studies,* DMS (CNAA)
5:272 Hatfield Poly, *Management studies,* DMS (CNAA)
5:273 Heriot-Watt, *Management,* Diploma, 1 yr f-t (hons deg plus 6 mths' relevant experience req) aims to develop knowledge of inter-relationship of all aspects of business and awareness o interdependence of govt, business and society; develops broad understanding of admin an business problems and ability to work effectively with others; *course content:* management prin ciples and practice; *plus 4 of:* behavioural studies, financial and managerial accounting, productio management, communication studies, marketing, economics, computer studies; dissertation Contact Professor A Keenan
5:274 Huddersfield Poly, *Management studies,* DMS (CNAA)
5:275 Hull, *Operational research,* Diploma
5:276 Humberside CHE (Hull), *Management studies,* DMS (CNAA)
5:277 Kent, *Quantitative aspects of management,* Diploma
5:278 Kingston Poly, *Management studies,* DMS (CNAA)
5:279 Kingston Poly, *Marketing,* Diploma (CNAA)
5:280 Lancashire Poly, *Bilingual executive assistant studies,* Diploma, 1 yr f-t (deg or equiv in an discipline with min A-level standard in French req); *course content:* 2 langs (French and 1 o

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5 282 **Lancaster,** *Business analysis,* Diploma
5 283 **Leeds Poly,** *Administration studies,* Diploma
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5 288 **Leeds Poly,** *Secretarial studies,* Diploma
5 289 **Leicester Poly,** *Management studies* DMS (CNAA)
5 290 **Lincoln CT,** *Management studies,* DMS (CNAA)
5 291 **Lincoln CT,** *Personal assistants' studies* Diploma (RSA)
5 292 [illegible] DMS (CNAA)
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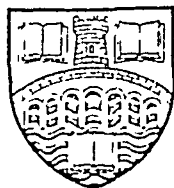
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Freepost Edinburgh EH14 0PA
5 312 **New C (Durham),** *Bilingual secretarial studies,* Diploma
5 313 **Newcastle Poly,** *Bilingual secretarial administration,* Diploma
5 314 **Newcastle Poly,** *Business information technology,* Diploma (CNAA)

5:315 **Newcastle Poly,** *Management studies,* DMS (CNAA)
5:316 **Newcastle Poly,** *Management studies (construction),* DMS (CNAA)
5:317 **Newcastle Poly,** *Management studies (public administration),* DMS (CNAA)
5:318 **Newcastle Poly,** *Marketing studies,* Diploma (CNAA)
5:319 **Newcastle Poly,** *Secretarial administration,* Diploma
5:320 **Norfolk CA & T,** *Management studies,* DMS (CNAA)
5:321 **NE London Poly,** *Industrial relations and personnel management,* Diploma (CNAA)
5:322 **NE London Poly,** *Management,* Diploma
5:323 **NE London Poly,** *Management studies (education),* DMS (CNAA)
5:324 **NE London Poly,** *Management studies (general),* DMS (CNAA)
5:325 **NE London Poly,** *Management studies (local government),* DMS (CNAA)
5:326 **NE London Poly,** *Management studies (manufacturing management),* DMS (CNAA)
5:327 **NE London Poly,** *Management studies (marketing management),* DMS (CNAA)
5:328 **N Lindsey CT (Scunthorpe),** *Management studies,* DMS (CNAA)
5:329 **N Staffs Poly,** *International marketing,* Diploma (CNAA)
5:330 **N Staffs Poly,** *Management studies,* DMS (CNAA)
5:331 **N Staffs Poly,** *Management studies,* Diploma (CNAA)
5:332 **N Staffs Poly,** *Marketing management,* Diploma (CNAA)
5:333 **Norwich City CF & HE,** *Management studies,* DMS (CNAA)
5:334 **Norwich City CF & HE,** *Management studies (education),* DMS (CNAA)
5:335 **Norwich City CF & HE,** *Personal assistants' studies,* Diploma
5:336 **Oxford,** *Management studies,* Certificate
5:337 **Oxford Poly,** *Management studies,* DMS (CNAA)
5:338 **Plymouth Poly,** *Management studies,* DMS (CNAA), 2 yrs p-t (deg or equiv qual normally re plus age of 23, those over 27 with at least 4 yrs' professional or admin experience considered *stage 1:* environment and organisation: econ, legal and social environment; quantitative manage ment: maths and stats for business, management accounting; management practice: operation planning and control, marketing; exams; *stage 2:* business policy and decision making, manage ment practice; exams, project. **Contact** Academic Registrar
5:339 **Plymouth Poly,** *Management studies (shipping),* DMS (CNAA)
5:340 **Poly of Central London,** *Industrial relations and labour law,* Diploma
5:341 **Poly of Central London,** *Management studies,* DMS
5:342 **Poly of Central London,** *Marketing,* Diploma
5:343 **Poly of Central London,** *Modern office studies and secretarial studies,* Diploma
5:344 **Poly of Central London,** *Personal and administrative assistants' study,* Diploma
5:345 **Poly of Central London,** *Personnel management,* Diploma (CNAA)
5:346 **Poly of North London,** *Labour studies,* Diploma
5:347 **Poly of North London,** *Management and administration,* Diploma
5:348 **Poly of North London,** *Management studies (recreation management),* DMS (CNAA)
5:349 **Poly of North London,** *Planning for leisure,* Diploma
5:350 **Poly of North London,** *Purchasing and supply,* Diploma, 1 yr f-t: 2 yrs p-t (approp deg or HNC/I in business studies req); *course content:* purchasing practice and techniques, stores managemer and inventory control or retail merchandise management, purchasing and supply managemen plus at least 1 option from: materials and production planning and control, marketing, structur planning and control in public sector, contract procedures and techniques; individual researc study on topic related to purchasing or allied functions; assessment by exams and in-cours assignments, report on research work. **Contact** RSS Davis, Course Tutor
5:351 **Poly of Wales,** *Management studies,* DMS (CNAA)
5:352 **Poly of Wales,** *Management studies (health service),* DMS (CNAA)
5:353 **Poly of Wales,** *Management studies (manufacturing),* DMS (CNAA)
5:354 **Poly of Wales,** *Management studies (personnel management),* Diploma
5:355 **Poly of Wales,** *Management studies (public sector),* DMS (CNAA)
5:356 **Portsmouth Poly,** *Management studies,* DMS (CNAA)
5:357 **Robert Gordon's IT (Aberdeen),** *Management studies,* DMS (CNAA)
5:358 **Robert Gordon's IT (Aberdeen),** *Personnel administration,* Diploma (CNAA)
5:359 **St Helens CT,** *Management studies,* DMS (CNAA)

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5 363 **Seale-Hayne C,** *Management studies (agriculture)*, DMS (CNAA)
5 364 **Sheffield City Poly,** *Human resources management* Diploma (CNAA)
5 365 **Sheffield City Poly,** *Management studies*, DMS (CNAA)
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5 369 **South Bank Poly,** *Business linguist studies*, Diploma
5 370 **South Bank Poly,** *Management studies*, DMS (CNAA)
5 371 **Strathclyde,** *Business information technology systems*, Diploma
5 372 **Strathclyde,** *Hotel administration* Diploma
5 373 **Strathclyde,** *Office automation*, Diploma
5 374 **Strathclyde,** *Secretarial studies*, Diploma
5 375 **Suffolk CH & FE,** *Management studies*, DMS (CNAA)
5 376 **Sunderland Poly,** *Management studies*, DMS (CNAA)
5 377 **Sussex,** *Labour studies*, Diploma
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5 386 **Ulster,** *Administration and law*, Diploma
5 387 **Ulster,** *Housing studies*, Diploma
5 388 **Ulster,** *Management studies*, Diploma
5 389 **Ulster,** *Marketing*, Diploma
5 390 **Ulster,** *Personnel management*, Diploma
5 391 **Wales (UWIST),** *Business administration*, DBA
5 392 **Watford C,** *Advertising administration*, Diploma
5 393 **Watford C,** *Management studies*, DMS (CNAA)
5 394 **West Glamorgan IHE (Swansea),** *Management studies*, DMS (CNAA)
5 395 **Wolverhampton Poly,** *Management studies*, DMS (CNAA)
5 396 **Worcester TC,** *Management studies*, DMS (CNAA)



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University of Stirling
Stirling FK9 4LA
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Further Information
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Sussex Place, Regent's Park London NW1 4SA
Telephone 01 262 5050 Telex 27461 (LBSKOX G)
Please address correspondence to either
The Registrar, Full time Master's Programme
or The Registrar Part time Master's Programme

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School of Management
University of Bath
Claverton Down
Bath BA2 7AY
Telephone Bath (0225) 826826



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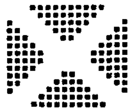
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The courses begin in October 1986; for more information please contact the Admissions Officer:

The City University Business School, Frobisher Crescent, Barbican Centre, London EC2Y 8HB.
Telephone: 01-920 0111 Ext 234.

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During the first term students all take the same course in economics, accounting, organisational behaviour, statistics, computing, business policy and business law. In the second and third terms the core of the programme is provided by a study of general management. In addition participants choose four electives (management accounting, business economics, business finance, personnel management, industrial relations, management science, international business, general marketing and market research) for greater specialisation. All MBA candidates write a dissertation at the end of the taught programme.

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50 George Square, Edinburgh EH8 9JY.



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Kennington
Oxford OX1 5NY
Telephone Oxford (0865) 735422

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This course examines the economic and social issues which arise from changes in technology and industrial organisation and combines theoretical analysis with practical understanding The course is for full time and part time students and begins in October This course is accepted by Research Councils as suitable for tenure of studentships Applications are invited from good graduates in social science engineering and science Work experience desirable but not essential

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University of Lancaster

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A 12 month programme leading to the degree of MSc in Informat on Management is offered each year commencing in October by the School of Management and Organisational Sciences

Aimed at graduates not necessarily with computer training but probably w th management interests the course is generally for those who w sh to develop careers in **Information Management** the task of ensuring that enterprises of all k nds make best use of the r resources for generat ng and using nformation

The course s part taught but includes a project component leading to a dissertation The Science and Engineering Research Council has accepted the course as suitable for the tenure of its advanced course studentships

For details write to
Gill Williams Department of Systems
(Ref 72) Univers ty of Lancaster
Lancaster LA1 4YX
Telephone (0524) 65201 ext 4488

School of Management and Organisational Sciences

University of Lancaster

One year MA in Systems in Management

A u nte es d nka nnghow t usesy mscon pt to ta kl a w de ange of p ob ems in an typ of o gan a on f m smal bu nes t mu t na onal orp a n and publ c s rv es

N ne een years research nvolv ng well o er 0 p oje ts forms the bas fo th s demand ng 12 mon h course Th s re earch has developed and refined methodolog es n wh ch sy ems th nk ng p ov des a means fo ana ys ng human act v es and ident fy ng the procedural and commun ca ons weaknesses wh h underl e many comp ex p oblem The *spec fica ion of requ emen for operational and manage*men nforma on systems s a part cula appl at n

The course c ern b l h n hod og and app ca n the ba c fun t n l a ea f gan a n o m pl d w h a 4-m n h pr j c n based n an x n o gan sa n

Applican s norma v ha e e he a good d gree or an equ a l nt pr fe onal qua f ca on p ef ably coupl d w h experience of w k ng n an gan sa on

For d ta w te to
G ll W l ams Depa tment of S s m
(Ref 73) Un ers y f Lanca r
Lanca ter LA1 4YX
Telephone (5 4) 65 1 ex 4488

UNIVERSITY OF MANCHESTER
INSTITUTE OF SCIENCE AND TECHNOLOGY

Department of Management Sciences

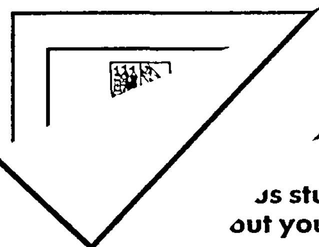
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- **Business Economics**
- **Business Finance**
- **Industrial Relations & Personnel Policies**
- **International Business**
- **Marketing**
- **Operations Management**
- **Organisational Psychology**

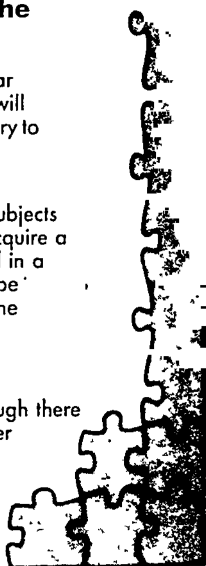
Please write to
The Postgraduate Admiss ons Off cer
Department of Management Sciences
UMIST
PO Box 88
Manchester M60 1QD

List of chapter headings and numbers

on pages 42 and 43



ɅrE



ɟs studying for an MSc and we'll help you get the ȯut your future career.

Our . ɟcience course is designed to equip you with managerial skills, in particular develo‹ ‹alytical approach to management problems. With the practical insight you will gain into ‹. ‹fferent aspects of business operation, you will acquire the knowledge necessary to make an effective career choice.

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Imperial College of Science and Technology,
Exhibition Road, London SW7 2BX (Telephone: 01-589 5111)

6 Business studies: accountancy

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies' section

6 1 **Belfast,** *Accounting,* MSSc/PhD
6 2 [illegible]
6 3 [illegible]
6 4 [illegible]
6 5 [illegible]
6 6 [illegible]
6.7 [illegible]
6 8 **City,** *Management studies,* MPhil/PhD
6 9 [illegible]
6 10 [illegible]
6 11 [illegible]
6 12 [illegible]
6 13 [illegible]

change in response to changes in technology, management information systems, management control systems, systems analysis and information theory, *financial planning and quantitative aspects of accounting and finance* financial simulation models, optimising models, financial forecasting models, models dealing with risk and uncertainty, integrated planning systems *impact of behavioural and organisation theory in accounting and finance* Contact Senior Administrative Assistant

6 14 **Edinburgh,** *Accounting,* MPhil/PhD
6.15 **Exeter,** *Economics,* MPhil/PhD
6 16 [illegible]
6.17 [illegible]
6 18 [illegible]
6 19 [illegible]
6 20 [illegible]
6 21 [illegible]

national company corporate tax strategy *yr 3* dissertation exam coursework assessment Contact T Kettell

6 52 Buckingham, *Public sector studies,* MA/Diploma
6 53 City, *Internal auditing and management,* MSc/Diploma
6 54 City, *Shipping and finance,* MSc/Diploma
6 55 City of London Poly, *Accounting and finance,* MA (CNAA)
6 56 East Anglia, *Accountancy and finance,* MSc/Diploma
6 57 East Anglia, *Computerised accountancy,* MSc
6 58 Glasgow, *Accountancy,* MAcc 1 yr f t 2 yrs p t coursework in accounting theory and financial [illegible]

6 59 Heriot Watt, *International banking and financial studies,* MSc *See page 81*
6 60 [illegible]

6 61 [illegible]
6 62 [illegible]
6 63 [illegible]
6 64 Poly of North London, *Accounting and finance,* MA
6 65 Reading, *International business and international financial management* MA
6 66 [illegible]
6 67 [illegible]
6 68 [illegible]

management information systems financial management international corporate finance dissertation Contact W Collins

6 69 Strathclyde, *Financial studies,* MSc/Diploma
6 70 Trent Poly, *Accounting and finance,* MA (CNAA)
6 71 Ulster, *Finance and financial management* MBA/MSc

Certificates and diplomas

6 72 Birmingham, *Development finance* Diploma
6 73 Glasgow, *Accountancy,* Diploma
6 74 Heriot Watt, *Accountancy* Diploma
6 75 London (LSE), *Accounting and finance* Diploma
6 76 Manchester, *Accounting and finance* Diploma
6 77 Southampton, *Financial managerial controls* Certificate
6 78 [illegible]
6 79 [illegible]

6 80 [illegible]

6 81 Strathclyde, *Accountancy* Diploma
6 82 Teesside Poly, *Financial management* DMS (CNAA)
6 83 Ulster, *Advanced financial accounting,* Diploma
6 84 Ulster, *Financial accounting,* Diploma
6 85 Ulster, *Management accounting,* Diploma



Read

the displayed advertisements for additional information

Index starts on page 518



7 36 **Oxford,** *Ancient history,* MLitt/DPhil
7 37 **Portsmouth Poly,** *Historical and literary studies,* MPhil/PhD (CNAA)
7 38 **Reading,** *Classics,* MPhil/PhD
7 39 **St Andrews,** *Classics,* MPhil/PhD
7 40 **Sheffield,** *Ancient history and classical archaeology,* MPhil/PhD
7 41 **Sheffield,** *Classical studies,* MPhil/PhD
7 42 **Southampton,** *Classics* MPhil/PhD
7 43 **Wales (Aberystwyth),** *Classics,* MA/PhD
7 44 **Wales (Bangor),** *Classics,* MA/PhD
7 45 **Wales (Cardiff),** *Classics,* MA/PhD
7 46 **Wales (Lampeter),** *Classics,* MA/PhD
7 47 **Wales (Swansea),** *Classics,* MA/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

7 48 **Belfast,** *Later Roman history,* MA
7 49 **Birmingham,** *Byzantine studies,* MA
7 50 **Bristol,** *Aegean and Anatolian prehistory,* MA
7 51 **Bristol,** *Late Roman studies,* MA
7 52 **Durham,** *Greek,* MA
7 53 **Edinburgh,** *Classical archaeology,* MLitt
7 54
7 55
7 56
7 57
7 58 **Hull,** *Greek studies,* MA
7 59 **Hull,** *Latin studies,* MA
7 60 **Leeds,** *Classical civilisation,* MA
7 61 **Leeds,** *Greek,* MA
7 62 **Leeds,** *Greek civilisation* MA
7 63 **Leeds,** *Latin* MA
7 64
7 65
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7 69
7 70
7.71 **London (Queen Mary),** *Classics* MA
7 72 [illegible]
7 73
7 74
7 75 **London (Westfield),** *Classics* MA
7 76 **Newcastle,** *Greek,* MA
7 77 **Newcastle,** *Greek archaeology,* MA
7.78 **Newcastle,** *Latin,* MA
7 79 **Nottingham,** *Classics,* MA
7 80 **Oxford,** *Ancient history,* MPhil/MSt
7 81 **Oxford,** *Classical archaeology,* MPhil/MSt
7 82 **Oxford,** *Classical Armenian studies,* MSt
7 83 **Oxford,** *Greek and Latin languages and literature,* MPhil
7 84 **Oxford,** *Greek and or Latin languages and literature,* MSt

8 Communication studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

8 1 **Bristol,** *Drama,* MA/MLitt/PhD
8 2
8 3
8 4
8 5 **Kent,** *Film studies,* MA/PhD
8 6 **Leeds,** *Television,* MPhil/PhD
8 7 **Leicester,** *Mass communication research,* MPhil/PhD
8 8
8 9
8 10
8 11
8 12 **Poly of Central London,** *Mass media,* MPhil/PhD (CNAA)
8 13 **Poly of Central London,** *Photographic arts,* MPhil/PhD (CNAA)
8 14 **Poly of Central London,** *Photographic sciences,* MPhil/PhD (CNAA)
8 15 **Poly of Wales,** *Behavioural and communication studies,* MPhil/PhD (CNAA)
8 16 **Royal CA,** *Film and television,* MA/PhD
8 17
8 18

Board of Canada, study of radio and television esp broadcast drama news documentary and

8 19
8 20 **Wales (Cardiff),** *Education,* MEd/PhD
8 21 **York,** *Communication studies,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

8 22 MA
8 23
8 24 preparation for entry to newspaper Clother
8 25 **East Anglia,** *Film studies* MA
8 26

8:27 **London (Inst Ed),** *Film and television studies for education,* MA
8:28 **London (Inst Neurology),** *Human communication,* MSc
8:29 **Newcastle,** *Hispanic drama and film,* MA
8:30 **Poly of Central London,** *Film studies,* MA/Diploma (CNAA)
8:31 **Royal CA,** *Film and television,* MA
8:32 **Sheffield City Poly,** *Communication studies,* MA (CNAA)
8:33 **Sunderland Poly,** *Communication studies,* MA/Diploma (CNAA)
8:34 **Wales (Cardiff),** *Journalism,* MA
8:35 **Wales (Lampeter),** *English,* MA

Certificates and diplomas

8:36 **Bristol,** *Radio, film and television,* Certificate
8:37 **Bristol Poly,** *Communication and cultural studies,* Diploma/Certificate
8:38 **City,** *Clinical communication studies,* Diploma
8:39 **Croydon C,** *Media studies (film and animation),* Diploma
8:40 **Lancashire Poly,** *Radio and television jo* iploma, 1 yr f-t (deg usually req, non-grads sponsored by broadcasting employer d); aims to provide professional training and academic background to give basic k dio and tel journalism, ability to be immediately productive in radio or *n. and to benefit from further* experience and traini *bus:* p s (jour oadcasting), academic subjs (media law dmin board on; in term 2 several weeks spent in TV o and cal radio. **Contact** J Winston
8:41 **London (Gold** *ic*
8:42 **London C Prin** s), 1 uiv professional req, exception from tanti rience consid *subjs studied i* epo rdin reporting, c affairs and m e ion; exams, co assessment an e , S s Tutor
8:43 **Middlesex Po** (
8:44 **St Martin's S**
8:45 **St Martin's S**
8:46 **Sunderland**
8:47 **Sunderland**
8:48 **Wales (Cardi**

9 Development studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

9:1 **Bath,** *Development studies,* MPhil/PhD
9:2 **Birmingham,** *Accounting and finance,* MSocSc/MPhil/PhD
9:3 **Bradford,** *Development and project planning,* MPhil/PhD
9:4 **East Anglia,** *Development studies,* MPhil/PhD; supervision available for research; sp interests in: international econ order and problems of under-development; econ development policies; planning and implementation; agricultural/rural development planning; farming systems planning; use and planning of natural resources (water and natural resource development and conservation, land use planning in arid and semi-arid areas, erosion causes and control, natural resource economics); issues of social and political change; social policy and admin; population and manpower in developing countries; staff research and professional expertise cover all major areas of developing world.
9:5 **Essex,** *Economics,* MPhil/PhD
9:6 **Keele,** *Economics,* MA/PhD
9:7 **London (Wye),** *Agricultural economics,* MPhil/PhD
9:8 **Nottingham,** *Planning studies,* MPhil/PhD
9:9 **St Andrews,** *Economics,* MPhil/PhD
9:10 **Strathclyde,** *Economics,* MSc/PhD
9:11 **Strathclyde,** *Overseas development studies,* MSc/PhD
9:12 **Sussex,** *Agrarian studies,* MPhil/DPhil
9:13 **Sussex,** *Development studies,* MPhil/DPhil; supervision available, research projects inc: employment, wages and labour utilisation in context of internationalisation of production; rural development esp rural poverty in S Asia and Africa inc rural appraisal; irrigation management; food policies, agricultural science and technology, rural development planning; development economics with sp interest in problems of employment, unemployment, education and training, incomes policy and income distribution; political economy of S African region; political factors in world commodities esp copper; education and employment; mod and contemp China with sp ref to Chinese strategies and theories of development; post-harvest problems, women in agriculture; political economy of development planning esp basic human needs strategies and income distribution; international financial flows to developing countries and impact on their economies; impact of foreign investments, macroecon management; social implications of technical change in S Asian agriculture with sp ref to energy and irrigation; sociol of development. Contact Chairman, Teaching Area, IDS
9:14 **Wales (Aberystwyth),** *Economics and economic history,* MSc(Econ)/PhD
9:15 **Wales (Swansea),** *Development studies,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

9:16 **Aberdeen,** *Rural and regional resources planning,* MSc
9:17 **Bath,** *Development studies,* MSc/Diploma
9:18 **Birmingham,** *Development administration,* MSocSc/Diploma
9:19 **Birmingham,** *Development finance,* MSocSc

Bradford *National development and project planning* MSc

East Anglia [illegible]

exams dissertation

East Anglia [illegible]

project analysis agricultural development planning or rural development planning regional physical planning regional econ planning assessment of coursework exams dissertation (British Council)

East Anglia [illegible]

plann ng regional econ planning or international econ relat ons *or rural development admin* theories of development pol tical economy of agrarian change or contemp world development

E[illegible]

course content econ development theory development plann ng trade and development short d ssertation and 1 option from wide range inc internat onal trade economics of international monetary system resources economics public economics *Contact* Dr J Frank

Essex *Sociology of development* MA/Diploma

[illegible] for Development Studies designed for those from developed and develop ng countries intend ng careers in econ develop *ment or wish ng to expand knowledge of special st areas see ch 13 for complementary econ* planning course *course content* development theory 2 from econom cs of food and agriculture in developing countries human resources and development internat onal economics industrialisa t on and technolog cal change social st planning quantitative methods for plann ng monetary and fiscal pol cies in develop ng countries project appraisal and development planning international law and development d ssertat on Contact LD Smith

9:36 Hull, *Sociology of developing societies*, MA
9:37 Keele, *Development economics*, MA/Diploma
9:38 Kent, *Development economics*, MA/Diploma
9:39 Leeds, *Civil engineering in hot climates*, MEng
9:40 Leeds, *Development studies*, MA
9:41 Leeds, *Management studies*, MBA
9:42 Leeds, *Political sociology of development*, MA
9:43 Leeds, *Public health*, MPH
9:44 Leicester, *Economic development*, MA, 1c yr f-t, 2c yrs p-t; *course content* theory and policy of growth in developing countries, theory of public sector economics, quantitative methods; problems of econ development in Africa and/or S Asia; public finance, international economics and development, natural resource economics; project appraisal and budgeting; urban and regional problems, economics of public enterprises, 4 exam papers, coursework assessment, dissertation Contact Registrar (Higher Degrees)
9:45 London (Imperial), *Technology and development*, MSc/DIC
9:46 London (Inst Ed), *Comparative education and education in developing countries*, MEd
9:47 London (Inst Ed), *Curriculum studies and education in developing countries*, MEd
9:48 London (Inst Ed), *Education in developing countries*, MA
9:49 London (Inst Ed), *Sociology of education and education in developing countries*, MEd
9:50 London (LSE), *Social planning in developing countries*, MSc/Diploma
9:51 London (LSH and TM), *Community health in developing countries*, MSc/School Diploma
9:52 London (SOAS), *Economics of public policy in developed and developing countries*, MSc
9:53 London (UC), *Building design for developing countries*, MSc
9:54 London (UC), *Economics of public policy in developed and developing countries*, MSc
9:55 London (UC), *Urban development planning*, MSc
9:56 Loughborough, *Water and waste engineering for developing countries*, MSc/ALUT
9:57 Manchester, *Development studies*, MA(Econ)
9:58 Manchester, *Human resource development*, MSc
9:59 Newcastle, *Architecture*, MPhil Diploma
9:60 Nottingham, *Environmental planning for developing countries*, MA
9:61 Nottingham, *Urban design for developing countries*, MA/Diploma
9:62 Oxford, *Development economics*, MSc
9:63 Reading, *Agricultural extension*, MSc/Diploma
9:64 Reading, *Alternative energy for developing countries*, MSc/Diploma
9:65 Salford, *Economic development*, MSc/Diploma, 1 yr f-t, 2 yrs p-t; *course content* choice of 2 streams *theory, practice and policy of econ development*, aimed at those pursuing careers as economists in this country or overseas, inc econ development, econ theory, quantitative methods, econ of project appraisal, developing countries in international monetary system, public sector economics, *hist aspects of development studies* of sp interest to those teaching or seeking preparation for research in econ hist of 3rd World, inc development economics, economics of Imperialism, econ of urban and regional development, hist dimensions of econ development; 3rd World sociol, politics and geog, assessment of coursework, exam, plus dissertation for MSc. Contact Susan Mullins
9:66 Salford, *Transport and development*, MSc/Diploma
9:67 Strathclyde, *Development economics*, MSc/Diploma
9:68 Strathclyde, *Development planning*, MSc/Diploma
9:69 Strathclyde, *Marketing for industrialising countries*, MCom/Diploma
9:70 Strathclyde, *Sociology of development and human resources*, MSc
9:71 Sunderland Poly, *Geography and development*, MA (CNAA)
9:72 Surrey, *Producer co-operative development*, MSc/Diploma
9:73 Sussex, *Agrarian studies*, MA
9:74 Sussex, *Development studies*, MPhil, 2 yrs f-t (hons deg or equiv req, some study of economics desirable, work experience in developing country preferred); broad approach to main theories and problems in development studies and relationship betwn these and specific policy issues; *course content yr 1* roots of development debate in lit on industrial revolutions of presently adv industrialised nations, application of economics, sociol and political science to problems of developing countries, *yr 2* quantitative and qualitative research methods and stat policy, plan-

9.75 [illegible]
9 76 [illegible]
9 77 [illegible]
9.78 [illegible]
9 79 [illegible]
9 80 [illegible]
9 81 **York,** *Administrative science and development problems,* MSc
9 82 **York,** *Project appraisal and policy analysis,* MSc/Diploma

Certificates and diplomas

9 83 **Birmingham,** *Business administration,* Diploma
9 84 **Birmingham,** *Development finance,* Diploma
9 85 **Cambridge,** *Development studies,* Diploma
9 86 [illegible]
9 87 [illegible]

economics programme and project appraisal or methods of econ research, international econ relations, agricultural policy analysis assessment of coursework exam
9 88 **East Anglia,** *Trade and development,* Diploma
9 89 **Edinburgh,** *Planning studies (developing countries),* Diploma
9 90 **Essex,** *Development economics,* Diploma
9 91 [illegible]

9 92 [illegible]
9.93 **Kent,** *Economics,* Diploma
9 94 **Lancaster,** *Development economics,* Diploma
9 95 **Leeds,** *Educational administration,* Diploma
9 96 **Leeds,** *Educational studies,* Diploma
9.97 **Leeds,** *Health planning and administration,* Diploma
9 98 [illegible]
9 99 [illegible]
9.100 [illegible]
9.101 [illegible]
9 102 **London (Wye),** *Agricultural development,* Diploma
9 103 **Manchester,** *Development administration,* Diploma
9.104 **Manchester,** *Economic development,* Diploma
9 105 **Napier C (Edinburgh),** *Transportation planning in developing countries,* Diploma
9.106 **Oxford,** *Economic development,* Diploma
9.107 **Poly of Central London,** *Transport and development,* Diploma
9.108 **Poly of North London,** *Economic development,* Diploma

Hum *'sc*

9:109 Salford, *Transport and development,* Advanced Certificate
9:110 South Bank Poly, *Hospital and health service administration,* Diploma
9:111 Surrey, *Economics of energy and development,* Diploma
9:112 Wales (Aberystwyth), *Comparative development studies,* Diploma
9:113 Wales (Swansea), *Development policy and planning,* Diploma
9:114 Wales (Swansea), *Social policy and administration,* Diploma
9:115 Warwick, *Public administration and policy analysis,* Diploma

10 Drama

Higher degrees by research

ate studies section

10 1 **Birmingham,** *Drama and theatre arts,* MA/MLitt/PhD
10 2 **Birmingham,** *Shakespeare studies,* MA/MLitt/PhD
10 3 **Bristol,** *Drama,* MA/MLitt/PhD
10 4 **East Anglia,** *Drama,* MPhil/PhD
10 5 **Glasgow,** *Drama,* MLitt/PhD
10 6 **Hull,** *Drama,* MPhil/PhD
10 7 **Kent,** *Drama,* MA/PhD
10 8 **Lancaster,** *Theatre studies,* MPhil/PhD
10 9 **London (Goldsmiths'),** *Drama,* MPhil/PhD
10 10 **London (RHBC),** *Drama and theatre studies* MPhil/PhD
10 11 [illegible]
10 12 [illegible]
10 13 [illegible]
10 14 [illegible]
10 15 **Wales (Bangor),** *Drama,* MA/PhD
10 16 **Warwick,** *Theatre studies,* MA/MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

10 17 **Birmingham,** *Shakespeare studies,* MA
10 18 **Bristol,** *Drama studies,* MA
10 19 **Bristol,** *French drama and theatre history* MA
10 20 **Bristol,** *Twentieth century German drama,* MA
10 21 **Essex,** *Drama,* MA
10 22 **Glasgow,** *Drama,* MPhil
10 23 **Hull,** *Theatre and media production,* MA
10 24 **Lancaster,** *French theatre studies* MA
10 25 **Lancaster,** *Theatre studies,* MA
10 26 **Leeds,** *Theatre studies* MA *See page 94*
10 27 **London (RHBC),** *Drama and theatre studies* MA
10 28 **London (Westfield),** *Drama,* MA
10 29 **Loughborough,** *Drama and education,* MA
10 30 **Newcastle,** *Hispanic drama and film* MA
10 31 **Poly of North London,** *Modern drama studies,* MA (CNAA)
10 32 **St Andrews,** *Shakespeare studies,* MPhil
10 33 **Sussex,** *Renaissance English literature,* MA
10 34 **Warwick,** *English and European renaissance drama,* MA
10 35 **York,** *Medieval studies medieval drama at York,* MA

Certificates and diplomas

10:36 **Essex IHE,** *Drama in education,* Diploma
10:37 **Glasgow,** *Dramatic studies,* Diploma
10:38 **Hertfordshire CA & D,** *Drama therapy,* Diploma
10:39 **Manchester,** *Drama,* Diploma
10:40 **Wales (Cardiff),** *Theatre studies,* Diploma
10:41 **Welsh CM & D (Cardiff),** *Drama,* Advanced Certificate
10:42 **Welsh CM & D (Cardiff),** *Technical theatre,* Certificate

Consult an institution's official prospectus before applying

11 Economic and social history

Higher degrees by research

[illegible] ... are studies' section.

11.1 Aberdeen, *Economic history*, MLitt PhD
11.2 [illegible]
11.3 [illegible]
11.4 [illegible]
11.5 [illegible]
11.6 [illegible]
11.7 [illegible]
11.8 Durham, *History*, MA MLitt PhD
11.9 East Anglia, *Economic and social history*, MPhil PhD
11.10 Edinburgh, *Economic and social history*, MPhil PhD
11.11 Exeter, *Economic history*, MPhil PhD
11.12 Glasgow, *Economic history*, MLitt PhD [illegible]
11.13 [illegible] *Economic and social history* [illegible]
11.14 Hull, *Economic and social history*, MPhil PhD
11.15 Kent, *Economic and social history*, MPhil PhD
11.16 [illegible]
11.17 [illegible]
11.18 [illegible]
11.19 [illegible]
11.20 [illegible]
11.21 [illegible]
11.22 [illegible]
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11.26 [illegible]
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11.34 [illegible]
11.35 [illegible]
11.36 [illegible]

Certificates and diplomas

10:36 **Essex IHE,** *Drama in education,* Diploma
10:37 **Glasgow,** *Dramatic studies,* Diploma
10:38 **Hertfordshire CA & D,** *Drama therapy,* Diploma
10:39 **Manchester,** *Drama,* Diploma
10:40 **Wales (Cardiff),** *Theatre studies,* Diploma
10:41 **Welsh CM & D (Cardiff),** *Drama,* Advanced Certificate
10:42 **Welsh CM & D (Cardiff),** *Technical theatre,* Certificate

11 Economic and social history

Higher degrees by research

11 1 **Aberdeen,** *Economic history,* MLitt/PhD
11.2 **Bath,** *Modern social and economic history* MPhil/PhD
11 3 **Belfast,** *Economic and social history,* MA/MSSc/MSc(Econ)/PhD
11 4 **Birmingham,** *Economic and social history,* MSocSc/MPhil/PhD
11 5
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11 11 **Exeter,** *Economic history,* MPhil/PhD
11 12 **Glasgow,** *Economic history,* MLitt/PhD supervision available in business hist financial and banking hist medical hist social policy urban and transport hist and Imperialism and 3rd World econ development area studies of USA Africa specialised interests in econ and social aspects of Scotland sp facilities in medical and business hist in archives and Wellcome Unit for Hist of Medicine current projects inc entrepreneurship and business biography in Scotland hist of forensic medicine and of highland hospital services urban elites and social structure trade and shipping in Indian Ocean, histories of Clydesdale Bank and TSB US tyre industry good facilities for overseas students who may attend classes appropriate to their area of research **Contact** Professor A Slaven
11 13 **Huddersfield Poly,** *Economic and social history,* MPhil/PhD (CNAA)
11 14 **Hull,** *Economic and social history* MPhil/PhD
11 15 **Kent,** *Economic and social history,* MPhil/PhD
11 16 **Leeds,** *Economic history,* MA/MPhil/PhD
11 17
11 18
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11 20
11 21
11 22 **Manchester,** *History,* MPhil/PhD
11 23 **Manchester Poly,** *Economics and economic history* MPhil/PhD (CNAA)
11 24 **N Staffs Poly,** *Social history, MPhil/PhD (CNAA)*
11 25
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11:37 Wales (Swansea), *Economic history,* MA/MSc(Econ)/PhD
11:38 Warwick, *Social history,* MPhil/PhD
11:39 York, *Economic and social history,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

11:40 Birmingham, *Economic and social history,* MSocSc
11:41 Birmingham, *Law, society and economy in England 1450-1660,* MA
11:42 Essex, *Social history,* MA/Diploma
11:43 Lancaster, *Modern social history,* MA
11:44 Leeds, *Economic history,* MA
11:45 Leeds, *Social history of art,* MA
11:46 London (Birkbeck), *Economic and social change in Britain 1870 to present,* MA/MSc
11:47 London (Goldsmiths'), *History of the European labour movement,* MA
11:48 London (Inst Commonwealth Studies), *Area studies: Commonwealth,* MA
11:49 London (LSE), *Economic history,* MSc
11:50 Middlesex Poly, *Industrial and social history,* MA (CNAA)
11:51 Sheffield, *Economic and social history,* MA
11:52 Strathclyde, *Economic and social history,* MLitt/Diploma
11:53 Warwick, *Comparative labour history,* MA
11:54 Wolverhampton Poly, *West Midlands historical studies,* MA
11:55 York, *Economic and social history,* MSc

Certificates and diplomas

11:56 Hull, *Economic history,* Diploma

12 Economic and social statistics

Higher degrees by research

[illegible]

12 1 **Aberdeen**, *Sparsely populated areas*, MLitt/PhD
12 2 **City**, *Actuarial science*, MPhil/PhD
12 3 **City**, *Social statistics*, MPhil/PhD
12 4 **Edinburgh**, *Medical statistics*, MPhil/PhD
12 5 **Exeter**, *Economics*, MPhil/PhD
12 6 **Heriot Watt**, *Actuarial mathematics and statistics*, MSc/PhD
12 7 **Kent**, *Quantitative social science*, MPhil/PhD
12 8 **London (LSE)**, *Population studies and demography*, MPhil/PhD
12 9 [illegible]
12 10 [illegible]
12 11 [illegible]
12 12 [illegible]
12 13 **Wales (C of Medicine)**, *Medical computing and statistics*, MSc/PhD
12 14 **York**, *Economics and related studies*, MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

12 15 **Essex**, *Social science data analysis*, MA/Diploma
12 16 **Exeter**, *Population research*, MA
12 17 **Kent**, *Computing and social statistics*, MA
12 18 **Kent**, *Social statistics*, MA/Diploma
12 19 **Leeds**, *Economic statistics*, MA
12 20 [illegible]

Registrar (Higher Degrees)

12 21 [illegible]
12 22 [illegible]
12 23 [illegible]
12 24 [illegible]
12 25 [illegible]
12 26 [illegible]
12 27 [illegible]
12 28 [illegible]
12 29 [illegible]
12 30 [illegible] MSc
12 31 [illegible]
12 32 **Wales (Cardiff)**, *Population policies and programmes* MSc(Econ)
12 33 **Wales (Swansea)**, *Epidemiology and health planning* MSc

Certificates and diplomas

12:34 **City,** *Actuarial science,* Diploma

12:35 **East Anglia,** *Economics and statistics,* Diploma, 1 yr f-t (hons deg in any subj accepted); designed for grads seeking to acquire or strengthen training in economics and stat techniques for entry into further p-g study or into employment as quantitative economists; emphasis on econ principles and stat and quantitative techniques, inc linear programming and econometrics. Contact MF Morrison

12:36 **Heriot-Watt,** *Actuarial science,* Diploma

12:37 **Kent,** *Economic and social statistics,* Diploma

12:38 **Manchester,** *Economic and social statistics,* Diploma

12:39 **Wales (Cardiff),** *Population growth studies,* Diploma

Which course?

See chapter headings on pages 42 and 43 for cognate subjects

13 Economics

Higher degrees by research

13 1 Aberdeen, *Political economy,* MLitt/PhD
13 2 Bath, *Economics,* MPhil/PhD
13 3 Bath, *Political economy,* MPhil/PhD
13 4 Belfast, *Economics,* MSc(Econ)/PhD
13 5 Birmingham, *Economics,* MSocSc/MPhil/PhD
13 6 Birmingham, *Industrial economics and business studies,* MSocSc/MPhil/PhD
13 7 Birmingham Poly, *Government and economics,* MPhil/PhD (CNAA)
13 8 Bradford, *Economics,* MPhil/PhD
13 9 Bristol, *Economics,* MSc/MPhil/PhD
13 10 Bristol Poly, *Economics and social science,* MPhil/PhD
13 11 Brunel, *Economics and econometrics,* MPhil/PhD
13 12 Buckingham, *Economics,* MPhil/DPhil
13 13 Cambridge, *Economics and politics,* MSc/PhD
13 14 City, *Economics,* MPhil/PhD
13 15 Coventry (Lanchester) Poly, *Economics,* MPhil/PhD (CNAA)
13 16 Dundee, *Economics,* MPhil/PhD
13 17 Durham, *Economics,* MA/MPhil/PhD
13 18 [illegible]

ment mineral economics pricing commodity exports and econ development, industrial development incentives diffusion of innovations industrial market structure international productivity comparisons industrial location urban and regional development economics of trade unions and labour markets time series econometric models, economics of Ricardo and Mill determinants of investment, demand modelling, business cycles determinants of inflation, sources and uses of company finance **Contact** MF Morrison

13 19 Edinburgh, *Economics,* MPhil/PhD
13 20 Essex, *Economics,* MPhil/PhD
13 21 Exeter, *Economics,* MPhil/PhD
13 22 Glasgow, *Economics* MLitt/PhD supervision available for research in Dept of Political Economy and Dept of Social and Econ Research areas most strongly represented inc food and agriculture

13 23 [illegible]
13 24 [illegible]

tal economics esp conservation *demand theory* functional forms for utility and demand reform of

social security and personal taxation esp econ effects of a social dividend scheme; property taxation and other problems of local and regional taxation; political radicalism; impact of econ and social crisis in inter-war Germany; socio-econ and political development of British labour in 19th and 20th cents; *international trade:* commodity composition of LDC exports; *econ planning:* theory and practice in various countries. Contact H Fleming

13:25 Huddersfield Poly, ***Economic and marketing studies,*** MPhil/PhD (CNAA)

13:26 Hull, ***Economics and commerce,*** MPhil/PhD; supervision available, main research interests: econometrics, labour economics and related areas of industrial relations, education, human capital, economics of family and population economics; also monetary, international, public (inc collective choice) and industrial economics, hist of thought, economics of uncertainty and information. Contact G Makepeace

13:27 Keele, ***Economics,*** MA/PhD

13:28 Kent, ***Economics,*** MPhil/PhD

13:29 Kingston Poly, ***Economics and politics,*** MPhil/PhD (CNAA)

13:30 Lancashire Poly, ***Economics,*** MPhil/PhD (CNAA)

13:31 Lancaster, ***Economics,*** MPhil/PhD

13:32 Leeds, ***Economic studies,*** MA/MPhil/PhD

13:33 Leeds Poly, ***Home economics,*** MPhil/PhD (CNAA)

13:34 Leicester, ***Economics,*** MPhil/PhD

13:35 Leicester Poly, ***Economics and accounting,*** MPhil/PhD (CNAA)

13:36 Liverpool, ***Economics,*** MA/PhD

13:37 London (Birkbeck), ***Economics,*** MPhil/PhD

13:38 London (LSE), ***Economics,*** MPhil/PhD

13:39 London (Queen Mary), ***Economics,*** MPhil/PhD

13:40 London (SOAS), ***Economics,*** MPhil/PhD

13:41 London (UC), ***Political economy,*** MPhil/PhD

13:42 Loughborough, ***Economics,*** MPhil/PhD; supervision available, major areas of research inc: *economics:* economics of EEC; monetary economics and policy; social economics; economics of Middle E; international trade flows; consumer protection and restrictive practices in UK and EEC; international banking, money and finance; economics of financial insts; industrial relations; labour economics; public sector economics; regional and urban economics; transport economics; economics of production and technological change; energy economics; *econ and social hist:* business hist; econ development in 20th cent in Britain; social movements and change in 18th cent; local and regional hist; Victorian family and marriage; hist of British industrial relations and of British labour movement; urban hist; French social hist. Contact Dr K J Button

13:43 Manchester, ***Econometrics,*** MA(Econ)/PhD

13:44 Manchester, ***Economics,*** MA(Econ)/PhD

13:45 Manchester Poly, ***Economics and economic history,*** MPhil/PhD (CNAA)

13:46 Newcastle, ***Economics,*** MA/PhD; supervision in: decision making under uncertainty; economics of law; development, environmental, industrial, labour, regional, transport and welfare economics; commodity markets; international econ policy; exchange rate determination and monetary policy; information economics and capital markets, agency theories of the firm, stock market reaction tests and mod econ hist. Contact Professor MW Jones-Lee

13:47 Newcastle Poly, ***Economics,*** MPhil/PhD (CNAA)

13:48 NE London Poly, ***Business,*** MPhil/PhD (CNAA)

13:49 N Staffs Poly, ***Economics,*** MPhil/PhD (CNAA)

13:50 Nottingham, ***Economics,*** MPhil/PhD

13:51 Nottingham, ***Industrial economics, accountancy and insurance,*** MPhil/PhD

13:52 Open, ***Economics,*** BPhil/MPhil/PhD

13:53 Oxford, ***Economics,*** MLitt/DPhil

13:54 Paisley CT, ***Economics and management,*** MPhil/PhD (CNAA)

13:55 Poly of Central London, ***Economics,*** MPhil/PhD (CNAA)

13:56 Reading, ***Economics,*** MPhil/PhD

13:57 St Andrews, ***Economics,*** MPhil/PhD

13:58 Salford, ***Economics,*** MSc/PhD

13:59 Sheffield, ***Economic studies,*** MPhil/PhD

13:60 Southampton, ***Economics and econometrics,*** MPhil/PhD

13 61 **South Bank Poly,** *Building economics,* MPhil/PhD
13 62 **South Bank Poly,** *Economics,* MPhil/PhD (CNAA)
13 63 [illegible]
13 64 [illegible]

Professor RA Hart
13 65 **Stirling,** *Technological economics,* MSc/PhD
13 66 **Strathclyde,** *Economics,* MSc/PhD
13 67 **Strathclyde,** *Scottish economy,* MSc/PhD
13 68 **Surrey,** *Economics,* MPhil/PhD
13 69 **Surrey,** *Energy economics,* MPhil/PhD
13 70 **Sussex,** *Economics,* MPhil/DPhil
13 71 **Thames Poly,** *Economics,* MPhil/PhD (CNAA)
13 72 **Trent Poly,** *Economics and public administration,* MPhil/PhD (CNAA)
13 73 [illegible]
13 74 [illegible] *See page 107*
13 75 [illegible]
13 76 [illegible]
13 77 [illegible]
13 78 [illegible]

13 79 [illegible]
13 80 [illegible]

13 81 **Wales (UWIST),** *Management, engineering production and economics,* MSc/PhD
13 82 **Warwick,** *Economics,* MPhil/PhD
13 83 **Wolverhampton Poly,** *Economics and social studies,* MPhil/PhD (CNAA)
13 84 **York,** *Economics and related studies,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

13 85 **Bath,** *Fiscal studies,* MSc
13 86 **Belfast,** *Economic and political thought,* MSSc
13 87 **Belfast,** *Economics* MSc(Econ)
13 88 **Birmingham,** *Economics,* MSocSc
13 89 **Bristol,** *Economics,* MSc
13 90 **Brunel,** *Economics for technologists,* MSc/Diploma
13 91 **Cambridge,** *Economics,* MPhil

13:92 Cambridge, *Economics and politics of development,* MPhil

13:93 City of London Poly, *Economics,* MPhil/PhD (CNAA)

13:94 City of London Poly, *Econometrics and forecasting,* MSc/Diploma (CNAA)

13:95 East Anglia, *Development economics,* MA

13:96 East Anglia, *Economics,* MA, 1 yr f-t; intensive training in adv econ theory, theoretical and applied econometrics, and optional subj; emphasis on relationship betwn theoretical and applied aspects of microeconomics, macroeconomics and econometrics; *options likely to be available:* international trade, industrial economics, urban and regional economics, labour economics, political economy, national income accounting, development economics, development policy and planning; assessment of coursework, exams, research project. **Contact** MF Morrison

13:97 Essex, *Business economics,* MA, 1c yr f-t: 2 yrs p-t; intended for students with econ background who wish to specialise in areas of economics that relate to industry and finance; *course content:* topics in finance and accounting, theory of industrial organisation, corporate strategy and industrial policy, quantitative methods, short dissertation, 1 option from list inc OR, international trade, public economics, comparative industrial relations. **Contact** Dr J Frank

13:98 Essex, *Development economics,* MA

13:99 Essex, *Econometrics,* MA, 1c yr f-t; intended for candidates with strong math and stat background who wish to specialise in econometrics; *course content:* 4 compulsory papers: econ theory, techniques in quantitative economics, econometric theory, applied economics; short dissertation, optional paper from wide range inc macroecon modelling, math economics, maths and stat topics. **Contact** Dr J Frank

13:100 Essex, *Economics,* MA, 1 yr f-t: 2 yrs p-t (depending on quals); intended to complete training in mod econ theory and applied economics, programme designed to meet needs of students with widely varied backgrounds and academic objectives; *course content:* econ theory, quantitative methods and applications, short dissertation, 3 papers from range of options inc open-economy macroeconomics, resource economics, trade and development, applied econometrics, labour economics, game theory and applications. **Contact** Dr J Frank

13:101 Essex, *Political economy,* MA/Diploma

13:102 Exeter, *Economics of finance and investment,* MA

13:103 Exeter, *Economics of the European Community,* MA

13:104 Glasgow, *Economic development,* MPhil

13:105 Glasgow, *Economic planning,* MPhil, 1 or 2 yrs f-t; in Centre for Development Studies; oriented towards those wishing to become econ planners in developing countries, professional planning staff concerned with design and implementation of development plans, and academics, research workers or international agency staff involved in econ planning; see ch 9 for complementary econ development course; *compulsory subjs:* principles of macroecon planning, project appraisal and development planning, quantitative methods for planning; dissertation in related field. **Contact** Dr F Noorbakhsh

13:106 Glasgow, *International finance,* MPhil, 1c yr f-t; in School of Financial Studies/Dept of Political Economy; intended as interdisciplinary training for those wishing to pursue careers in financial management in international agencies and multinational corporations; *compulsory subjs:* corporate finance and international financial markets, international financial management, monetary theory and policy; *optional subjs:* money and finance in developing countries, international economics, project appraisal and development planning, quantitative methods, comparative monetary policy (inc ref to EEC); dissertation on approved topic. **Contact** Dr John Foster

13:107 Glasgow, *Monetary economics,* MPhil, 1c yr or 2 yrs f-t; in Dept of Political Econ; intended for those wishing to become professional macroeconomists inc those seeking careers in domestic or international banking and those who already have experience in these areas; *compulsory subjs:* macroeconomics and monetary theory, financial markets and monetary policy; quantitative methods *or* topics in adv econometrics; *optional subjs:* money and finance in developing economies, international econ, project appraisal and development planning, corporate finance and international financial markets, comparative monetary policy (inc ref to EEC), topics in adv econ theory, dissertation on approved topic. **Contact** Dr John Foster

13:108 Hull, *Economics, labour economics and econometrics,* MSc(Econ), 1-2 yrs f-t; *programme of study inc:* adv macro and microeconomics, econometrics or quantitative methods, plus 2 options from: applied econometrics (econometrics specialists only), economics of uncertainty, labour economics (2 options, labour economics specialists only), industrial economics, international economics, public economics, economics of family and population economics, etc; exam and dissertation. **Contact** G Makepeace

13 109 **Keele,** *Development economics,* MA/Diploma
13 110 **Kent,** *Economics,* MA
13 111 **Kent,** *Economics and econometrics,* MA
13 112 **Lancaster,** *Industrial economics,* MSc
13 113 **Lancaster,** *Trade and development,* MSc
13 114 [illegible]

13 115 **Leeds,** *Economics,* MA 2 yrs p t adv training for practising teachers of economics in secondary and further education, also available to others *course content yr 1* econ theory economics [illegible]
13 116 [illegible]

transport economics (inc computer appreciation), transportation planning economics of transport operation plus project Contact P Mackie
13 117 **Leicester,** *Economic development,* MA
13 118 **Leicester,** *Economics of public policy,* MA
13 119 **Liverpool,** *Economics,* MCom
13 120 **London (Birkbeck),** *Economics,* MSc
13 121 [illegible]
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13 130 **Oxford,** *Development economics,* MSc
13 131 **Oxford,** *Economics,* MPhil
13 132 **Reading,** *International business and economic development,* MA
13 133 [illegible] MA
13 134 [illegible]
13 135 [illegible]
13 136 [illegible]
13 137 [illegible]

13 138 **Sheffield,** *Economics,* MA
13 139 [illegible] MSc(SocSc)/Diploma 1e yr f t (MSc(SocSc)) [illegible] hnical [illegible] *tudied* [illegible] omics
options 2 from (some limitation in choice) open economy macroeconomics *monetary* economics development economics, public sector economics, industrial economics, labour economics, Bayesian econometrics, time series analysis dissertation for MSc(SocSc)(ESRC) Contact Professor Alistair Ulph
13 140 **Stirling,** *Technological economics,* MSc/Diploma
13 141 **Strathclyde,** *Development planning,* MSc/Diploma
13 142 **Surrey,** *Energy economics,* MSc
13 143 **Sussex,** *Economics,* MA
13 144 **Thames Poly,** *Political economy,* MA (CNAA)
13 145
13 146 *See page 107*
13 147

University of Edinburgh



One Year MSc/Diploma in Quantitative Economics

Aims of the Programme
The programme is designed to provide graduate economists with a professional training in advanced empirical methods as applied to economics. Graduates from these courses will be equipped to specify, empirically implement, and interpret economic models which are founded on rigorous theorising.

Content of the Programme
The programme is made up of five compulsory core courses in macroeconomics, microeconomics, statistics, mathematics, and econometrics, four research modules drawn from major areas of economics including money, welfare, monopoly capitalism, development and cost benefit analysis, and three electives drawn from applied econometrics, structural modelling in industrial organisation, labour economics, public economics, and theoretical and computational issues in economic planning. All candidates sit four written papers. MSc candidates in addition write a dissertation on a topic in quantitative economics. Provision is made for selected candidates to transfer to MPhil and PhD status.

Eligibility for Admission
Candidates should hold an honours degree in economics, or a bachelor's degree with a major in economics. The same level of attainment, but with a lesser specialisation in economics is acceptable if the candidate has strength in cognate areas such as finance, operational research, and statistics.

For further information write to
Secretary (Postgraduate Studies), Department of Economics, University of Edinburgh, William Robertson Building, George Square, Edinburgh EH8 9JY, UK.

EAST ANGLIA

UEA

MA in INDUSTRIAL DEVELOPMENT

12 months full-time (deg req). Covers economics, sociology and management of industrialisation, especially in less-developed countries, including both the general rôle of industry in economic development and international production and trade, and specific strategies for industrialisation. Considers detailed issues of industrial sector planning, and policies to promote industrial growth. Includes training in Monitoring and Evaluation of industrial projects, and methods of input-output analysis. Assessment of coursework, exams and dissertation.

For further information, contact:
School of Development Studies
University of East Anglia
Norwich NR4 7TJ
United Kingdom

UNIVERSITY OF WARWICK

GRADUATE STUDIES IN ECONOMICS

PhD and MPhil: supervision from a large staff of international repute in most fields of contemporary economic theory, applied economic analysis, and econometric theory. Two ESRC Doctoral Programme Awards available each year.

MA in Economics:
one-year full-time, two-year part-time course. Normal entry requirement is a good honours degree in economics. Syllabus includes economic analysis; quantitative methods; and two specialist options from about twelve available each year; plus a dissertation. ESRC Committee Awards and other University scholarships are available for eligible candidates.

Graduate Diploma in Economics:
nine-month full-time course, intended for good honours graduates of subjects other than economics or for economists with potential whose previous training is below good honours standard.

MA in Quantitative Development Economics:
one-year full-time, two-year part-time course intended for those who have a career in government service or higher education in developing countries. Normal entry is via the Graduate Diploma but direct entry is possible with a good honours degree in either economics or statistics.

Graduate Diploma in Quantitative Development Economics:
nine-month full-time course to provide a level of tuition in economics, and development economics and statistics accessible to students who have not obtained the equivalent of a good honours degree.

For further information and application forms write to: Graduate Admissions Tutor, Department of Economics, University of Warwick, Coventry CV4 7AL, UK

14 Education

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

14 1 **Aberdeen,** *Education* MLitt/PhD
14 2 **Bath,** *Education* MPhil/PhD
14 3 **Belfast,** *Education* MA(Ed)/PhD
14 4 **Birmingham,** *Education* MEd/PhD
14 5 **Birmingham Poly,** *Art education,* MPhil/PhD (CNAA)
14 6 **Birmingham Poly,** *Educational studies* MPhil/PhD (CNAA)
14 7 **Bradford,** *Education,* MPhil/PhD
14 8 **Brighton Poly,** *Art and design teacher education,* MPhil/PhD (CNAA)
14 9 **Brighton Poly,** *Education studies,* MPhil/PhD
14 10 **Bristol,** *Education,* MEd/MPhil/PhD
14 11 **Bristol Poly,** *Art education,* MPhil/PhD (CNAA)
14 12 **Bristol Poly,** *Education* MPhil/PhD (CNAA)
14 13 **Brunel,** *Education,* MPhil/PhD
14 14 **Bulmershe CHE (Reading),** *Education,* MPhil/PhD (CNAA)
14 15 **Cambridge,** *Education,* MSc/MLitt/PhD
14 16 **Cambridge Inst Ed,** *Education* MEd/MPhil/PhD (East Anglia)
14 17 **Christ Church C (Canterbury),** *Education,* MPhil/PhD (Kent)
14 18 **Dundee,** *Continuing education,* MPhil/PhD
14 19 **Dundee,** *Medical education,* MSc/PhD
14 20 **Durham,** *Education* MA/MEd/PhD, supervision available sp interests educational and voca

14 21 [illegible]
14 22 [illegible]
14 23 **Essex IHE,** *Educational research,* MPhil/PhD (CNAA)
14 24 **Exeter,** *Education,* MPhil/PhD
14 25 **Garnett C,** *Further education,* MPhil/PhD (CNAA)
14 26 **Glasgow,** *Education,* MLitt/PhD
14 27 **Glasgow,** *Science education,* MSc/PhD
14 28 [illegible]
14 29 [illegible]
14 30 [illegible]
14 31 [illegible]
14 32 [illegible]

riculum development inc primary school curriculum programmed learning and educational technology computer aided teaching esp with ref to science and stats development of spatial ability in children counselling and guidance in educational settings mastery learning techniques measurement of attitudes towards science Contact RK Gaydon

14 33 **Keele,** *Education* MA/PhD

14:34 King Alfred's C (Winchester), *Special education,* MPhil (CNAA)
14:35 Kingston Poly, *Education,* MPhil/PhD (CNAA)
14:36 Lancaster, *Education,* MPhil/MLitt/PhD
14:37 Lancaster, *Management learning,* MPhil/PhD
14:38 Leeds, *Adult and continuing education,* MPhil/PhD
14:39 Leeds, *Education,* MEd/MPhil/PhD
14:40 Leicester, *Education,* MEd/PhD
14:41 Leicester Poly, *Education,* MPhil/PhD (CNAA)
14:42 Liverpool, *Education,* MEd/MPhil/PhD; supervision available; research interests: *curriculum studies:* middle schools, assessment in social science subjs, curriculum evaluation, dissemination and implementation, religious education, primary and secondary school science education, science concept development, curriculum continuity, maths education, innovation in further education, decision-making and curriculum; *policy and planning:* at local govt level, formal parent organisations, 19th-cent education; *physical education:* use of oral hist, socialisation into sport; *psychol:* phenomenal awareness in children, high-level thinking skills, children's reading; *sp education:* deviant children, problems of home teachers, head teachers and staff of related services, attitudes to handicap, monitoring development of physically-handicapped children; *teaching and classroom studies:* social interaction and gp dynamics, school climate and educational changes, self-awareness in head teachers, lang use in classroom; *phil and sociol of education:* interdisciplinary research, phil and curriculum; theory and practice in education; moral and religious education. **Contact** Professor W Harlen
14:43 Liverpool, *Education,* MPhil, 2 yrs f-t: 4 yrs p-t (teaching experience not req); research only; supervision available in most areas of education study. **Contact** Professor W Harlen
14:44 Liverpool Poly, *Education and community studies,* MPhil/PhD (CNAA)
14:45 London (Goldsmiths'), *Education,* MPhil/PhD
14:46 London (Inst Ed), *Education,* MPhil/PhD
14:47 London (KQC), *Education,* MPhil/PhD
14:48 Loughborough, *Design and technology,* MPhil/PhD
14:49 Loughborough, *Education,* MPhil/PhD
14:50 Luton CHE, *Chemical education,* MPhil/PhD (CNAA)
14:51 Manchester, *Education,* MPhil/PhD
14:52 Manchester Poly, *Education,* MPhil/PhD (CNAA)
14:53 Newcastle, *Education,* MEd/PhD
14:54 NE London Poly, *Architecture and design,* MPhil/PhD (CNAA)
14:55 NE London Poly, *Education and humanities,* MPhil/PhD (CNAA)
14:56 Nottingham, *Education,* MPhil/PhD
14:57 Open, *Educational studies,* BPhil/MPhil/PhD
14:58 Open, *Educational technology,* BPhil/MPhil/PhD
14:59 Oxford, *Educational studies,* MLitt/DPhil
14:60 Poly of North London, *Teaching studies,* MPhil/PhD (CNAA)
14:61 Poly of Wales, *Behavioural and communication studies,* MPhil/PhD (CNAA)
14:62 Portsmouth Poly, *Education,* MPhil (CNAA)
14:63 Reading, *Education,* MPhil/PhD; supervision available, research interests mainly in fields of comparative education, counselling and guidance, curriculum research and development, environmental education, lang and reading studies, music education, science and maths education. Contact Miss A McCord, Assistant Registrar & Secretary
14:64 St Paul & St Mary's C, *Education,* MPhil/PhD (CNAA)
14:65 Sheffield, *Education,* MPhil/PhD
14:66 Sheffield City Poly, *Chemistry,* MPhil/PhD (CNAA)
14:67 Sheffield City Poly, *Education,* MPhil/PhD (CNAA)
14:68 Sheffield City Poly, *Mathematics, applied statistics and OR,* MPhil/PhD (CNAA)
14:69 Sheffield City Poly, *Environmental and recreational studies,* MPhil/PhD (CNAA)
14:70 Southampton, *Education,* MPhil/PhD
14:71 Stirling, *Education,* MSc/PhD; supervision available for research; current interests: professional education/development of teachers; assessment; curriculum evaluation; school organisation and management; educational technology; microcomputers in primary education; research methodology; sp education; sociol of education; teaching of hist, maths, computing, science, English and

14 72 [illegible]
14 73 [illegible]

science and technology evaluating at distance materials to support academic staff training

inquiry, personal development strategies planning and change in organisations and communities and individuals staff development in professions and public service organisations inter personal skills training district nursing research and development **Contact** Jacky Leeks/Maureen Pope

14 74 **Sussex,** *Education,* MPhil/DPhil
14 75 **Trent Poly,** *Education,* MPhil/PhD (CNAA)
14 76 **Ulster,** *Education,* MPhil/DPhil
14 77 [illegible]
14 78 [illegible]

14 79 [illegible]
educational psychol communication media computer studies curriculum development hist of

14 80 [illegible]
14 81 [illegible]
14 82 **Warwick,** *Science education,* MA/MSc/PhD
14 83 **West Glamorgan IHE (Swansea),** *Computer studies,* MPhil/PhD (CNAA)
14 84 **West Glamorgan IHE (Swansea),** *Education,* MPhil/PhD (CNAA)
14 85 **West London IHE,** *Education,* MPhil (CNAA)
14 86 **Wolverhampton Poly,** *Education,* MEd/MPhil/PhD (CNAA/various univs)
14 87 **Worcester CHE,** *Education,* MPhil/PhD (CNAA)
14 88 **York,** *Education,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

14 89 **Aberdeen,** *Education,* MEd
14 90 **Aston,** *Teaching of English for specific purposes,* MSc/Diploma
14 91 **Bath,** *Education* MEd
14 92 **Belfast,** *Developmental and educational psychology,* MSc
14 93 **Belfast,** *Education* MEd
14 94 **Birmingham,** *Education,* BPhil(Ed)
14 95 **Birmingham,** *Education,* MEd
14 96 [illegible]
14 97 [illegible]
14 98 [illegible]
14 99 [illegible]
14 100 **Brighton Poly,** *Art and design education,* MA/Diploma

14:101 **Bristol,** *Education,* MEd
14:102 **Bristol Poly,** *Education,* MEd (CNAA)
14:103 **Brunel,** *Advanced teaching studies,* MEd/Adv Diploma
14:104 **Bulmershe CHE (Reading),** *Classroom studies,* MEd/Diploma (CNAA)
14:105 **Bulmershe CHE (Reading),** *School administration,* MEd (CNAA)
14:106 **Cambridge,** *Education,* MPhil
14:107 **Cambridge Inst Ed,** *Applied research in education,* MA (East Anglia)
14:108 **Cambridge Inst Ed,** *Education,* MA (East Anglia)
14:109 **Chester C,** *Curriculum studies,* MEd (Liverpool)
14:110 **Chester C,** *Religious education,* MEd (Liverpool)
14:111 **Christ Church C (Canterbury),** *Art and design education,* MA/Diploma (Kent)
14:112 **Christ Church C (Canterbury),** *Curriculum studies,* MA (Kent)
14:113 **Christ Church C (Canterbury),** *Curriculum studies (special needs),* MA/Diploma
14:114 **Christ Church C (Canterbury),** *Psychology of education,* MA (Kent)
14:115 **Christ Church C (Canterbury),** *Role of language in education,* MA/Diploma (Kent)
14:116 **Christ Church C (Canterbury),** *Science and mathematics for primary and middle years of schooling,* MA/Diploma (Kent)
14:117 **Christ Church C (Canterbury),** *Teaching of English as a foreign language,* MA/Diploma
14:118 **City,** *Arts management in education,* MA
14:119 **College of Librarianship (Wales),** *Educational technology,* MEd (Wales)
14:120 **College of Librarianship (Wales),** *School librarianship,* MEd (Wales)
14:121 **Crewe and Alsager CHE,** *Curriculum studies,* MEd (CNAA)
14:122 **Crewe and Alsager CHE,** *Education management,* MSc/Diploma (CNAA)
14:123 **Dundee,** *Education,* MEd
14:124 **Durham,** *Applied linguistics,* MA
14:125 **Durham,** *Education,* MA, 1 yr f-t; *topics available:* general course, drama in education, guidance and counselling, sp educational needs, study of curriculum; 2 yrs p-t; *topics available:* sp educational needs, comparative education (methods and data, selected countries, determinants of educational policy, international education), drama in education, educational law and admin, phil of education (contemp phil analysis in relation to education, aspects of hist of educational thought, education in a multicultural society, educational policy and practice, other educational studies), further education (hist, types of inst, vocational education, welfare), guidance and counselling, hist of education (esp in 19th- and 20th-cent England and Wales), physical education, psychol of education (nature, scope and methods; aspects of psychol of personality, motivation, learning, ability), sociol of education (school as social inst, education in relationship with wide society), study of curriculum, moral and religious education (inc paper in theology). **Contact** Richard F Goodings
14:126 **East Anglia,** *Applied research in education,* MA
14:127 **East Anglia,** *Chemical education,* MSc
14:128 **East Anglia,** *Education,* MA
14:129 **East Anglia,** *French and the teaching of French,* MA
14:130 **Edge Hill CHE (Ormskirk),** *Reading studies,* MA (Lancaster)
14:131 **Edinburgh,** *Community education,* MSc/Diploma
14:132 **Edinburgh,** *Education,* MEd
14:133 **Edinburgh,** *Educational psychology,* MSc/Diploma
14:134 **Essex IHE,** *Education management,* MSc (CNAA)
14:135 **Essex IHE,** *Educational research and evaluation,* MEd (CNAA)
14:136 **Exeter,** *Education,* MEd
14:137 **Exeter,** *Educational psychology,* MEd
14:138 **Garnett C,** *Further education,* MA (CNAA)
14:139 **Glasgow,** *Education,* MEd/MPhil
14:140 **Glasgow,** *Educational psychology and child guidance,* MAppSci
14:141 **Glasgow,** *Science and science education,* MSc
14:142 **Hatfield Poly,** *Education,* MEd (CNAA)
14:143 **Hertfordshire CHE (Watford),** *Education,* MEd (CNAA)
14:144 **Huddersfield Poly,** *Investigation of change in further education,* MEd (CNAA)

14 145 Hull, *Adult education*, MA
14 146 Hull, *Adult education*, MEd
14 147 [illegible]

tion pastoral care govt and management of education maths education classroom and curriculum science education religious and moral education computers in education physical education technology and media in education exam and dissertation Contact RK Gaydon
14 148 Hull, *Education* MEd 1 yr f t 2 yrs p t (hons deg and cert in education or teacher s cert and [illegible]

relation to classroom school and society international and comparative education curriculum studies physical education computer in school environment exam and dissertation Contact RK Gaydon
14 149 Hull, *French language and education*, MA
14 150 Keele, *Education* MA
14 151 Keele, *Education*, MEd
14 152 Keele, *Education*, MSc
14 153 King Alfred's C (Winchester), *Special education* MEd (CNAA)
14 154 Lancaster, *Education*, MA/Diploma
14 155 Lancaster, *Linguistics for English language teaching* MA
14 156 Lancaster, *Management learning*, MA
14 157 Lancaster, *Marketing education* MA
14 158 Lancaster, *Physics and education* MA
14 159 Lancaster, *Religious education*, MA
14 160 Leeds, *Adult and continuing education*, MEd
14 161 Leeds, *Education*, MEd
14 162 Leeds, *Education and local history*, MA
14 163 Leeds, *English literature and education*, MA
14 164 Leeds, *Linguistics and English language teaching*, MA
14 165 Leeds, *Mathematical education and mathematics* MSc
14 166 Leicester, *Adult and community education*, MEdStudies
14 167 [illegible]

social education assessment by dissertation and coursework assignments Contact Registrar (Higher Degrees)
14 168 Leicester, *History of education*, MA(Ed)
14 169 Leicester, *Philosophy of education*, MA(Ed)
14 170 Leicester, *Psychology of education*, MA(Ed)
14 171 Leicester, *Sociology of education*, MA(Ed)
14 172 Leicester, *Teacher education*, MA(Ed)
14 173 Leicester Poly, *Art and design education*, MA
14 174 [illegible]

tion; sp education: social psychol, maladjustment, learning disabilities, current trends, sp needs; *sociol; teaching and classroom studies:* teacher's role, school climate and educational change, social interaction and gp dynamics in classroom, lang and learning; *theory into practice*; moral and religious education. Contact Professor W Harlen

14:175 **Liverpool IHE,** *Religious education,* MEd (Liverpool)
14:176 **Liverpool IHE,** *Science education,* MEd (Liverpool)
14:177 **London (Birkbeck),** *Second language learning and teaching,* MA
14:178 **London (Goldsmiths'),** *Curriculum studies,* MA
14:179 **London (Goldsmiths'),** *Language and literature in education,* MA
14:180 **London (Goldsmiths'),** *Sociology of education,* MA
14:181 **London (Inst Ed),** *Art and design in education,* MA
14:182 **London (Inst Ed),** *Child development,* MA/MSc
14:183 **London (Inst Ed),** *Comparative education,* MA
14:184 **London (Inst Ed),** *Comparative education and education in developing countries,* MEd
14:185 **London (Inst Ed),** *Comparative education and foreign language teaching,* MEd
14:186 **London (Inst Ed),** *Comparative education and geographical education,* MEd
14:187 **London (Inst Ed),** *Curriculum studies,* MA
14:188 **London (Inst Ed),** *Curriculum studies and comparative education,* MEd
14:189 **London (Inst Ed),** *Curriculum studies and education in developing countries,* MEd
14:190 **London (Inst Ed),** *Economics education,* MA
14:191 **London (Inst Ed),** *Economics of education,* MA
14:192 **London (Inst Ed),** *Education,* MA/MSc/Diploma (London)
14:193 **London (Inst Ed),** *Education in developing countries,* MA
14:194 **London (Inst Ed),** *Education in multicultural urban areas,* MA
14:195 **London (Inst Ed),** *Educational administration,* MA
14:196 **London (Inst Ed),** *Educational psychology,* MA/MSc;
14:197 **London (Inst Ed),** *Educational statistics,* MA/MSc
14:198 **London (Inst Ed),** *Educational statistics and educational administration,* MA
14:199 **London (Inst Ed),** *Film and television studies for education,* MA
14:200 **London (Inst Ed),** *Geography in education,* MA
14:201 **London (Inst Ed),** *Higher and further education,* MA
14:202 **London (Inst Ed),** *History of education,* MA
14:203 **London (Inst Ed),** *History in education,* MA
14:204 **London (Inst Ed),** *Language and literature in education,* MA
14:205 **London (Inst Ed),** *Mathematical, statistical and computing education,* MSc
14:206 **London (Inst Ed),** *Music education,* MA
14:207 **London (Inst Ed),** *Philosophy of education,* MA
14:208 **London (Inst Ed),** *Political education,* MA
14:209 **London (Inst Ed),** *Psychology and education of children with special needs,* MA/MSc
14:210 **London (Inst Ed),** *Psychology of education,* MA/MSc
14:211 **London (Inst Ed),** *Religious education,* MA
14:212 **London (Inst Ed),** *Rights in education,* MA
14:213 **London (Inst Ed),** *Science education,* MA
14:214 **London (Inst Ed),** *Sociology of education,* MA
14:215 **London (Inst Ed),** *Sociology of education and education in developing countries,* MEd
14:216 **London (Inst Ed),** *Teaching of English to speakers of other languages,* MA
14:217 **London (KQC),** *Computers in education,* MA/MEd
14:218 **London (KQC),** *Mathematics education,* MA/MEd
14:219 **London (KQC),** *Religious education,* MA
14:220 **London (KQC),** *Science education,* MA/MEd
14:221 **London (KQC),** *Science or mathematics education,* MA
14:222 **London (KQC),** *Urban education,* MA/MPhil
14:223 **London (UC),** *Educational psychology,* MSc
14:224 **Loughborough,** *Archive, library and information studies and education,* MA
14:225 **Loughborough,** *Computer education,* MSc

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14 242 **Manchester Poly** *Science education* MSc/D ploma (CNAA)
14 243 **Middlesex Poly** *Reading behaviour* MEd (CNAA)
14 244 **Newcastle** *Education* MEd
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14 254 **Nottingham** *English* MA
14 255 **Open** *Advanced educational and social research methods* MSc
14 256 **Oxford** *Educational studies* MSc
14 257 **Reading** *Art and design education* MA
14 258 **Reading** *Chemical education* MSc
14 259 **Reading** *Classics* MA
14 260 **Reading** *Education and society* MA
14 261 **Reading** *Mathematical education* MA
14 262 **Reading** *Music education* MA
14 263 **Reading** *Organisation planning and management in education* MA 1 yr f t intro to management problems financial issues chang ng educational patterns and contemp educational issues from comparat ve perspective coursework assessment exam and d ssertat on Contact M ss A McCord Ass stant Registrar & Secretary
14 264 **Reading** *Phys cs education* MSc
14 265 **Reading** *Science education* MSc
14 266 **Reading** *Teaching English as a foreign language* MA/D ploma
14 267 **Roehampton IHE** *Educational stud es* MA
14 268 **Roehampton IHE** *Music education* MA/D ploma
14 269 **Royal CA** *Design education studies* MA
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14 277 **Sheffield** *Educational psychology* MA

14:278 Sheffield City Poly, *Education,* MEd/Diploma (CNAA)
14:279 Sheffield City Poly, *Education management,* MSc (CNAA)
14:280 Sheffield City Poly, *Science education,* MSc/Diploma
14:281 Southampton, *Education,* MA(Ed)
14:282 Southampton, *Education,* MSc(Ed)
14:283 Southampton, *Educational psychology,* MSc(SocSc)
14:284 Southampton, *Mathematics education,* MSc *See page 123*
14:285 South Bank Poly, *Mathematical education,* MSc (CNAA)
14:286 South Bank Poly, *Sociology,* MSc (CNAA)
14:287 Stirling, *Education,* MEd/Diploma, 1 yr f-t: 2 yrs p-t (deg and teaching qual req); designed for those interested in various aspects of further professional development in teaching, research, advisory services and admin; *curriculum:* gen programme; specialist programme in educational research methodology; certain courses in above areas oriented towards needs of overseas students; assessment of coursework, plus dissertation yr for MEd. **Contact** Professor JH Duthie
14:288 Stirling, *Special educational needs,* MEd/Diploma
14:289 Strathclyde, *Educational psychology,* MSc
14:290 Strathclyde, *Linguistics for the teaching of English language and literature,* MLitt/Diploma/Certificate
14:291 Sunderland Poly, *Education,* MEd (CNAA)
14:292 Sunderland Poly, *Mathematical modelling and computer simulation,* MSc (CNAA)
14:293 Surrey, *Chemical and biochemical sciences and education,* MSc/Diploma
14:294 Surrey, *Educational studies,* MSc/Diploma, 2 yrs p-t (deg or equiv and 3 yrs' experience in teaching or admin usually req); intended for teachers and administrators in education, industry and professions; *course content: 2 of:* organisation and admin in education (inc study of managerial issues within insts, c and local govt policy and decision making); adult education (inc exam of learning and teaching in adult education, purposes and organisation of adult education); curriculum studies (inc curriculum change as institutional process and dynamics of curriculum reform); developments in education of young adults (inc study of contemp issues and new developments in education of 16-19 age gp); assessment by essay, project work and written exams, plus dissertation for MSc. **Contact** Judith Potter/Bob Brownhill
14:295 Surrey, *Practice of higher education,* MSc/Diploma
14:296 Surrey, *Practice of science education,* MSc/Diploma
14:297 Sussex, *Curriculum development in higher and further education,* MA
14:298 Sussex, *Curriculum development in schools,* MA
14:299 Sussex, *Curriculum evaluation, planning and management,* MA
14:300 Sussex, *Curriculum management and development,* MA
14:301 Sussex, *Education and society,* MA
14:302 Sussex, *Educational policies and decision making,* MA
14:303 Sussex, *Independent studies,* MA
14:304 Sussex, *Language, the arts and education,* MA
14:305 Sussex, *Women and education,* MA
4:306 Trinity C (Carmarthen), *Curriculum studies (primary education),* MEd
4:307 Ulster, *Computer science education,* MSc/Diploma
14:308 Ulster, *Continuing education,* MA/Diploma
14:309 Ulster, *Education,* BPhil
14:310 Ulster, *Education,* MA
14:311 Ulster, *Education management,* MSc
14:312 Wales (Aberystwyth), *Bilingual and language education,* MEd
14:313 Wales (Aberystwyth), *Educational technology,* MEd/Diploma
14:314 Wales (Bangor), *Education,* MEd
14:315 Wales (Bangor), *Education in the field of dyslexia,* MEd
14:316 Wales (Cardiff), *Education,* MEd, 1 yr f-t: available p-t; *course content:* 2 options from: art education, computer studies, creative arts (primary), curriculum development, economics of education, educational admin, educational psychol, educational technology, environmental education, hist of education, law of education, phil of education, sociol of education, education of children with behavioural problems, education and development in developing countries, TEFL (offered at Wales (UWIST)), behavioural problems in schools, learning difficulties in schools,

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14 321 **Warwick,** *Education,* MEd
14 322 **Warwick,** *English language teaching,* MA
14 323 **Warwick,** *Primary education,* MA/Diploma
14 324 **Warwick,** *Science education,* MSc
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14 331 **York,** *Applied educational studies,* MA
14 332 **York,** *Biology and biological education,* MSc
14 333 **York,** *Chemistry and chemical education,* MSc
14 334 **York,** *Educational studies,* MA
14 335 **York,** *Mathematics and mathematical education,* MSc
14 336 **York,** *Physics and physics education,* MSc

Certificates and diplomas

14 337 **Aberdeen,** *Education,* Diploma
14 338 **Belfast,** *Advanced study of education,* Diploma
14 339 **Birmingham Poly,** *Professional studies in education (art and design)* Diploma
14 340 **Bishop Grosseteste C (Lincoln),** *Primary education,* Diploma (Nottingham)
14 341 **Bishop Grosseteste C (Lincoln),** *Special educational needs,* Diploma (Nottingham)
14 342 **Bolton IHE,** *Advanced study in technical education,* Diploma (Manchester)
14 343 **Bradford and Ilkley CC,** *Education and training of young people,* Diploma (CNAA)
14 344 **Bradford and Ilkley CC,** *The middle school years,* Diploma (CNAA)
14 345 **Bradford and Ilkley CC,** *Social education in the community,* Diploma (CNAA)
14 346 **Bradford and Ilkley CC,** *Special education,* Diploma (CNAA)
14 347 **Bretton Hall CHE,** *Applied education studies,* Diploma (Leeds)
14 348 **Bretton Hall CHE,** *Art education* Advanced Diploma
14 349 **Bretton Hall CHE,** *English studies,* Advanced Diploma
14 350 **Bridgwater C,** *Extension studies,* Diploma (Bristol Poly)
14 351 **Brighton Poly,** *Music performance,* Diploma
14 352 **Bristol,** *Advanced studies in education,* Diploma
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14 362 **Christ Church C (Canterbury),** *Religious education,* Diploma
14 363 **Christ Church C (Canterbury),** *Science education,* Diploma (ASE)

14:364 **Christ Church C (Canterbury),** *Teaching of modern languages (French),* Diploma (Kent)
14:365 **City,** *Music information technology,* Diploma
14:366 **Cornwall CF & HE,** *Science education for teachers in primary schools,* Diploma (ASE)
14:367 **Crewe and Alsager CHE,** *Business studies,* Certificate
14:368 **Crewe and Alsager CHE,** *Education management,* Diploma (CNAA)
14:369 **Crewe and Alsager CHE,** *Educational computing,* Certificate/Diploma
14:370 **Crewe and Alsager CHE,** *Mathematical education,* Diploma
14:371 **Crewe and Alsager CHE,** *Science education,* Diploma
14:372 **Crewe and Alsager CHE,** *Secondary school mathematics,* Advanced Certificate
14:373 **Crewe and Alsager CHE,** *Special education,* Diploma (CNAA)
14:374 **Derbyshire CHE (Derby),** *Education,* Diploma
14:375 **Derbyshire CHE (Derby),** *Professional studies in education,* Certificate
14:376 **Dundee,** *Education,* Diploma
14:377 **Dundee,** *Educational administration,* Diploma
14:378 **Dundee CT,** *Educational technology,* Diploma (CNAA)
14:379 **Durham,** *Education,* Diploma
14:380 **East Anglia,** *Chemistry and chemical education,* Diploma
14:381 **Edge Hill CHE (Ormskirk),** *Education,* Diploma of Adv Studies (Lancaster)
14:382 **Edinburgh,** *Christian education,* Diploma
14:383 **Essex IHE,** *Art education,* Diploma (CNAA)
14:384 **Essex IHE,** *Computer education,* Diploma (CNAA)
14:385 **Essex IHE,** *Drama in education,* Diploma
14:386 **Essex IHE,** *Educational technology,* Diploma (CNAA)
14:387 **Essex IHE,** *Language and reading,* Diploma (CNAA)
14:388 **Essex IHE,** *Management of mathematics,* Diploma (Math Assoc)
14:389 **Essex IHE,** *Management studies (education),* DMS (CNAA)
14:390 **Essex IHE,** *Mathematical education,* Diploma (Math Assoc)
14:391 **Essex IHE,** *Personal and social education,* Diploma (CNAA)
14:392 **Essex IHE,** *Teaching of mathematics to low-attaining pupils,* Diploma (Math Assoc)
14:393 **Essex IHE,** *Technology,* Diploma (CNAA)
14:394 **Exeter,** *Education (music and the arts in education),* Diploma
14:395 **Garnett C,** *Educational management,* Diploma
14:396 **Garnett C,** *Educational technology,* Diploma (CNAA)
14:397 **Glasgow,** *Adult education,* Diploma
14:398 **Glasgow,** *Education,* Diploma
14:399 **Glasgow,** *Educational psychology,* Diploma
14:400 **Gloucestershire CAT (Gloucester),** *Education management,* Diploma (Bristol Poly)
14:401 **Gwent CHE (Newport),** *Counselling and pastoral care,* Diploma
14:402 **Hatfield Poly,** *Applied educational studies,* Diploma
14:403 **Hatfield Poly,** *Education,* Certificate (CNAA)
14:404 **Hatfield Poly,** *Teaching and learning in higher education,* Diploma
4:405 **Hertfordshire CHE (Watford),** *Early childhood education,* Diploma
14:406 **Hertfordshire CHE (Watford),** *Education of children with learning difficulties,* Diploma
14:407 **Hertfordshire CHE (Watford),** *Education of hearing impaired children,* Diploma
14:408 **Hertfordshire CHE (Watford),** *Mathematical education,* Diploma (Math Assoc)
14:409 **Hertfordshire CHE (Watford),** *Special education,* Diploma
14:410 **Hertfordshire CHE (Watford),** *Teaching of art,* Diploma
14:411 **Hertfordshire CHE (Watford),** *Teaching of mathematics to low attainers,* Diploma (Math Assoc)
14:412 **Hertfordshire CHE (Watford),** *Teaching of reading,* Diploma
14:413 **Huddersfield Poly,** *Language and literacy,* Certificate
14:414 **Huddersfield Poly,** *Teaching of children with learning difficulties,* Certificate
14:415 **Hull,** *Adult education,* BA(Ed)
14:416 **King Alfred's C (Winchester),** *Art in education,* Diploma (CNAA)
14:417 **King Alfred's C (Winchester),** *Computing for teachers,* Certificates
14:418 **King Alfred's C (Winchester),** *Language in education,* Diploma (CNAA)

14 419 **King Alfred's C (Winchester),** *Religious studies,* Certificate
14 420 [illegible]
14 421 [illegible]
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14 423 **La Sainte Union CHE (Southampton),** *Language development and the teaching of reading,* Diploma (Southampton)
14 424 **La Sainte Union CHE (Southampton),** *Mathematical education,* Diploma (Math Assoc)
14 425 **Leeds,** *Assessment of educational performance,* Diploma
14 426 **Leeds,** *Computers in education,* Diploma
14 427 [illegible]
14 428 [illegible]
14 429 [illegible]
14 430 **Leeds,** *Educational administration,* Diploma
14 431 **Leeds,** *Educational studies,* Diploma
14 432 **Leeds,** *Primary education,* Diploma
14 433 **Leeds,** *Secondary education,* Diploma
14 434 **Leeds,** *Teaching English overseas,* Diploma
14 435 **Leeds,** *Teaching of mathematics,* Diploma
14 436 **Leeds Poly,** *Education of children with special needs,* Diploma (CNAA)
14 437 **Leicester Poly,** *Computing,* Diploma
14 438 **Liverpool IHE,** *Education* Diploma
14 439 **Liverpool IHE,** *Environmental education,* Diploma
14 440 **Liverpool IHE,** *French,* Diploma
14 441 **Liverpool IHE,** *Mathematical education,* Diploma
14 442 **Liverpool IHE,** *Religious education,* Diploma
14 443 **Liverpool IHE,** *Science education,* Diploma
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14 456 **London (Inst Ed),** *Art and design education,* Diploma
14 457 **London (Inst Ed),** *Child development and pre school/primary education,* Diploma
14 458 [illegible]
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14 461 **London (Inst Ed),** *Educational planning* Diploma
14 462 **London (Inst Ed),** *Educational rehabilitation of young people,* Diploma
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14:473 **Manchester,** *Community development,* Diploma
14:474 **Manchester,** *Education,* Diploma
14:475 **Manchester,** *Education for primary health care,* Diploma
14:476 **Manchester,** *Industrial education and training,* Diploma
14:477 **Manchester,** *Special educational needs,* Diploma
14:478 **Manchester,** *Teaching of English to speakers of other languages,* Diploma/Certificate
14:479 **Manchester,** *Technical education,* Diploma
14:480 **Manchester Poly,** *Management in education,* Diploma
14:481 **Manchester Poly,** *Special educational needs,* Diploma
14:482 **Mid-Kent CH & FE,** *Computer education,* Certificate/Advanced Certificate
14:483 **Mid-Kent CH & FE,** *Management studies (public administration),* DMS (CNAA)
14:484 **New C (Durham),** *Computing in the curriculum,* Diploma (Durham)
14:485 **New C (Durham),** *Craft design and technology,* Diploma (Durham)
14:486 **New C (Durham),** *Mathematical education,* Diploma (Math Assoc)
14:487 **New C (Durham),** *Pre-vocational education and vocational preparation,* Diploma (Durham)
14:488 **New C (Durham),** *Teaching mathematics to low attainers in secondary schools,* Diploma (Math Assoc)
14:489 **New C (Durham),** *Teaching of children with learning difficulties,* Diploma (CNAA)
14:490 **New C (Durham),** *Teaching of history,* Diploma (Hist Assoc)
14:491 **New C (Durham),** *Teaching primary science,* Diploma (Durham)
14:492 **Newcastle,** *Advanced educational studies,* Diploma
14:493 **Newcastle,** *Educational studies,* Diploma
14:494 **Newcastle Poly,** *Professional studies in education,* Diploma (CNAA)
14:495 **N Cheshire C,** *Computer education,* Diploma
14:496 **N Cheshire C,** *English studies,* Diploma (Manchester)
14:497 **N Cheshire C,** *Mathematical education,* Diploma (Math Assoc)
14:498 **NE London Poly,** *Counselling and pastoral care with special reference to schools,* Diploma (CNAA)
14:499 **NE London Poly,** *Management studies (education),* DMS (CNAA)
14:500 **NE Wales IHE,** *Education of children with special learning difficulties,* Diploma
14:501 **NE Wales IHE,** *Education of the 14 to 19 age group,* Diploma (Wales)
14:502 **NE Wales IHE,** *Management of schools,* Diploma
14:503 **NE Wales IHE,** *Primary mathematics education,* Diploma
14:504 **NE Wales IHE,** *Science in the primary school,* Diploma
14:505 **Norwich City CF & HE,** *Further education,* Diploma (Leeds)
14:506 **Norwich City CF & HE,** *Management studies (education),* DMS (CNAA)
14:507 **Oxford,** *Educational studies,* Diploma
14:508 **Oxford Poly,** *Education of children with special needs,* Diploma
14:509 **Oxford Poly,** *Educational management,* Diploma
14:510 **Oxford Poly,** *Special educational needs,* Diploma
14:511 **Oxford Poly,** *Teaching of hearing-impaired children,* Certificate
14:512 **Poly of North London,** *Mathematics in the primary school,* Diploma (Math Assoc)
14:513 **Poly of Wales,** *Education management,* Diploma (CNAA)
14:514 **Portsmouth Poly,** *Environmental education,* Diploma
14:515 **Reading,** *Agricultural education,* Diploma
14:516 **Reading,** *Remedial language studies,* Diploma
14:517 **Roehampton IHE,** *Practice of science education,* Diploma
14:518 **St Mark & St John C (Plymouth),** *English language teaching,* Diploma (Exeter)
14:519 **St Mark & St John C (Plymouth),** *Personal and social education in secondary schools,* Diploma (CNAA)
14:520 **St Mark & St John C (Plymouth),** *Science education for teachers in primary schools,* Diploma
14:521 **St Mark & St John C (Plymouth),** *Teaching of mathematics to low-attaining pupils,* Diploma (Math Assoc)
14:522 **St Mary's C (Strawberry Hill),** *Mathematical education,* Diploma (Math Assoc)
14:523 **St Mary's C (Strawberry Hill),** *Primary science,* Diploma (Surrey)
14:524 **St Mary's C (Strawberry Hill),** *Principles and practice of industry and commerce,* Diploma (Surrey)

14 525 **St Mary's C (Strawberry Hill),** *Religious education,* Diploma (Surrey)
14 526 **St Mary's C (Strawberry Hill),** *Teaching of English as a second language,* Diploma (Surrey)
14 527 **Sheffield City Poly,** *Design technology,* Diploma
14 528 **Sheffield City Poly,** *Education management,* Diploma
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14 534 **Southampton IHE,** *Educational management* Diploma
14 535 **Stirling,** *Computer education,* Diploma
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14 542 **Thames Poly,** *Management of mathematics departments,* Diploma
14 543 **Thames Poly,** *Physics,* Diploma (CNAA)
14 544 **Thames Poly,** *Professional studies in education* Diploma
14 545 **Trent Poly,** *Craft, design and technology,* Diploma
14 546 **Trinity C (Carmarthen),** *Curriculum development and management in the primary school,* Diploma
14 547 **Ulster,** *Advanced studies in education,* Diploma
14 548 **Ulster,** *Continuing education,* Diploma
14 549 **Ulster,** *Mathematical studies,* Diploma/Certificate
14 550 **Ulster,** *Teaching of English as a foreign language,* Diploma
14 551 **Wales (Aberystwyth),** *Advanced study in education,* Diploma
14 552 **Wales (UWIST),** *Teaching of English as a foreign language,* Diploma
14 553 **Warwick,** *English language teaching and administration* Diploma
14 554 **Warwick,** *Industry and education,* Diploma
14 555 **Warwick,** *Language improvement and methodology,* Certificate
14 556 **Warwick,** *Science education* Diploma
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(CNAA)
14 561 **West London IHE,** *Mathematical education* Diploma (Math Assoc)
14 562 **West London IHE,** *Professional studies in education* Diploma
14 563 **West Midlands CHE (Walsall),** *Environmental studies in the middle years of schooling* Diploma (CNAA)
14 564
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14 569 **Worcester CHE,** *Children with special educational needs* Diploma
14 570 **Worcester CHE,** *Curriculum development in school and classroom* Diploma
14 571 **York,** *Applied educational studies* Diploma
14 572 **York,** *Global and multicultural education,* Diploma



UNIVERSITY OF MANCHESTER

Department of Education

Research degrees

Facilities are available for the pursuit of full-time and part-time supervised research leading to the degrees of MPhil and PhD.

Taught courses are available in the following areas

MEd

Adult Education and Community Development
Aesthetic Education
Assessment and Evaluation
Curriculum Development
Educational Administration and Management
Education in Developing Countries
Education and the Mass Media
Educational Psychology
Educational Studies (modular studies)
Higher/Teacher Education
History of English Education
Industrial Education and Training
Management and Administration of Higher Education
Microcomputers in Education
Multicultural Education
Organisation and Planning of Education
Philosophy of Education
Primary Health Care
Physical Education
Reading
Science, Maths and Technology Education
Sociology of Education
Special Education
Teaching of English Overseas
Teaching of English to Speakers of Other Languages
Urban Education
Youth Studies

MSc

Educational Psychology (Professional Training)

Diploma

Adult Education
Advanced Study in Education
Community Development
Primary Health Care
Guidance and Counselling in Education
Industrial Education and Training
Special Educational Needs (Regional Diploma)
Education of Handicapped Children
Teaching of English Overseas
Teaching of English to Speakers of Other Languages
Primary School Management
Secondary School Management

Certificate

Adult Education and Community Development
Principles and Practice of Primary Education
Postgraduate Certificate in Education

For further information please write to
Professor J D Turner, Department of Education, University of Manchester M13 9PL.

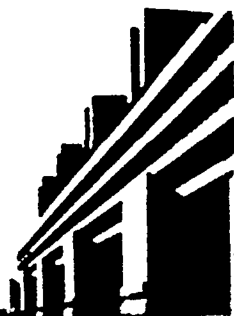
INSTITUTE OF EDUCATION
UNIVERSITY OF LONDON

The Institute offers a full range of courses: initial teacher training for graduates; advanced diplomas and BEd degree courses; Master's degrees (MA, MSc, MEd); Research degrees (MPhil, PhD); Associateship, Special and Short Courses. Applications from students from ethnic minorities are welcomed.

Further information:
The Academic Registrar, Institute of Education, University of London, 20 Bedford Way, London WC1H 0AL.

Teaching and research cover the following areas:

- Foundation disciplines — Philosophy, Psychology, Sociology, History, Economics of education
- Curriculum studies — subjects of the school curriculum.
- Comparative education
- Education of children with special needs
- Education in developing countries
- English for speakers of other languages
- Educational policy and administration
- Child development
- Statistical methods
- Health and welfare education
- Educational media
- Computer applications in education





THE UNIVERSITY OF HULL

Department of Adult & Continuing Education

POSTGRADUATE COURSES

Adult, Continuing & Post-secondary Education

Diploma in Adult & Continuing Education
Bachelor of Arts (Education)
Master of Arts
Master of Education
Master of Philosophy
Doctor of Philosophy

For further information please contact:
**Judi Irving, BA(Berkeley), BA(Hull)
Department of Adult & Continuing Education
49 Salmon Grove, Hull HU6 7SZ
United Kingdom
Telephone: (0482) 465435**

Postgraduate awards?

Read the editorial on pages 17–22

Abbreviations

See pages 31–33

15 Education (physical)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

15 1 **Birmingham,** *Physical education,* MA/MLitt/PhD
15 2 **Brighton Poly,** *Human movement studies,* MPhil/PhD (CNAA)
15 3 **Leeds,** *Physical education,* MPhil/PhD
15 4 [illegible]
15 5 [illegible]
15 6 [illegible]
15 7 [illegible]
15 8 **Poly of North London,** *Physical education,* MPhil/PhD (CNAA)
15 9 **Sheffield City Poly,** *Environmental and recreational studies* MPhil/PhD (CNAA)
15 10 **Surrey,** *Dance,* MPhil/PhD
15 11 **West London IHE,** *Physical education and sciences,* MPhil (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

15 12 **Birmingham,** *Physical education,* MA
15 13 **Brighton Poly,** *Physical education,* MA/Diploma (CNAA)
15 14 **Leeds,** *Physical education* MA
15 15 **Leeds,** *Physical education,* MEd
15 16 [illegible]
15 17 [illegible]
15 18 [illegible]
15 19 [illegible]
15 20 **St Andrews,** *Physical education,* MSc
15 21 **South Glamorgan IHE,** *Human movement studies,* MEd (Wales)
15 22 **Surrey,** *Dance studies,* MA
15 23 **West Sussex IHE (Bognor Regis),** *Sports science,* MPhil (CNAA)

Certificates and diplomas

15 24 **Dunfermline CPE,** *Recreation and leisure practice* Diploma (CNAA)
15 25 **Dunfermline CPE,** *Sports coaching* Certificate/Diploma
15 26 **Leeds,** *Physical education,* Diploma
15 27 **London (Goldsmiths'),** *Education with special reference to dance,* Diploma

16 English and American studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

16:1 **Aberdeen,** *English language and literature,* MLitt/PhD
16:2 **Aston,** *Modern languages,* MPhil/PhD
16:3 **Belfast,** *English,* MA/PhD
16:4 **Birmingham,** *English language and literature,* MA/MLitt/PhD
16:5 **Birmingham,** *Shakespeare studies,* MA/MLitt/PhD
16:6 **Birmingham Poly,** *English and communication studies,* MPhil/PhD (CNAA)
16:7 **Brighton Poly,** *Cultural studies,* MPhil/PhD (CNAA)
16:8 **Brighton Poly,** *English literature,* MPhil/PhD (CNAA)
16:9 **Bristol,** *English,* MA/MLitt/PhD
16:10 **Bristol Poly,** *English studies,* MPhil/PhD (CNAA)
16:11 **Buckingham,** *English literature,* MPhil/DPhil
16:12 **Cambridge,** *English,* MLitt/PhD
16:13 **Dundee,** *English,* MPhil/PhD
16:14 **Durham,** *English,* MA/MLitt/PhD
16:15 **East Anglia,** *American studies,* MPhil/PhD
16:16 **East Anglia,** *Literature,* MPhil/PhD
16:17 **Edinburgh,** *English language and literary stylistics,* PhD
16:18 **Edinburgh,** *English literature,* MLitt/PhD
16:19 **Essex,** *Literature,* MPhil/PhD
16:20 **Exeter,** *English,* MPhil/PhD
16:21 **Glasgow,** *English language,* MLitt/PhD
16:22 **Glasgow,** *English literature,* MLitt/PhD *See page 131*
16:23 **Glasgow,** *Scottish literature,* MLitt/PhD
16:24 **Hull,** *English language and literature,* MPhil/PhD
16:25 **Keele,** *American studies,* MA/PhD
16:26 **Keele,** *English language and literature,* MA/PhD
16:27 **Kent,** *English and American literature,* MA/PhD
16:28 **Kingston Poly,** *English literature,* MPhil/PhD (CNAA)
16:29 **Lancaster,** *English,* MPhil/PhD
16:30 **Lancaster,** *English literary research,* MA
16:31 **Lancaster,** *Linguistics and modern English language,* MPhil/PhD
16:32 **Leeds,** *English,* MPhil/PhD *See page 132*
16:33 **Leicester,** *American studies,* MA/MPhil/PhD
16:34 **Leicester,** *English,* MA/MPhil/PhD
16:35 **Leicester,** *Victorian studies,* MA/MPhil/PhD
16:36 **Liverpool,** *English language and literature,* MPhil/PhD
16:37 **London (Birkbeck),** *English,* MPhil/PhD
16:38 **London (Goldsmiths'),** *English,* MPhil/PhD
16:39 **London (KQC),** *English,* MPhil/PhD
16:40 **London (Queen Mary),** *English,* MPhil/PhD
16:41 **London (RHBC),** *English,* MPhil/PhD
16:42 **London (UC),** *English language and literature,* MPhil/PhD
16:43 **London (Westfield),** *English,* MPhil/PhD

6 44 **Loughborough,** *English and drama,* MPhil/PhD
6 45 **Manchester,** *English language and literature,* MPhil/PhD
6 46 **Manchester Poly,** *English and history,* MPhil/PhD (CNAA)
6 47 **Newcastle,** *English language and literature,* MLitt/PhD
6 48 **Newcastle Poly,** *English,* MPhil/PhD (CNAA)
6 49 **Nottingham,** *American studies,* MPhil/PhD
6 50 **Nottingham,** *English,* MPhil/PhD
6 51 **Open,** *Literature,* BPhil/MPhil/PhD
6 52 **Oxford,** *English language and literature,* MLitt/DPhil
6 53 **Reading,** *English,* MPhil/PhD
6 54 **St Andrews,** *English language and literature,* MPhil/PhD
6 55 [illegible]
6 56 [illegible]
6 57 [illegible]
6 58 **Sheffield City Poly,** *English,* MPhil/PhD (CNAA)
6.59 [illegible]
6 60 [illegible]

6 61 **Strathclyde,** *English studies,* MLitt/PhD
6 62 **Sussex,** *English literature,* MPhil/DPhil
6 63 [illegible] MPhil/PhD (CNAA)
6 64 [illegible]
6 65 [illegible]
6 66 [illegible]
6 67 [illegible]
6 68 [illegible]
6 69 **Wales (Swansea),** *English language and literature,* MA/PhD
6 70 [illegible] MA/PhD
6 71 [illegible]

6 72 [illegible]
6 73 [illegible]
6 74 [illegible]
6.75 [illegible]
6·76 [illegible]
6 77 [illegible]

France, America, children's lit, function of drama in education, Latin American lit, poetics
Contact RT Jones, Senior Lecturer

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

16:78 **Aberdeen,** *English language as a literary medium,* MLitt
16:79 **Aberdeen,** *Literature of region and nation,* MLitt
16:80 **Aberdeen,** *Scottish literature,* MLitt
16:81 **Belfast,** *Applied English linguistics,* MA
16:82 **Belfast,** *English (Anglo-Irish studies),* MA
16:83 **Belfast,** *English (medieval studies),* MA
16:84 **Birmingham,** *Shakespeare studies,* MA
16:85 **Bristol,** *Medieval English literature,* MA
16:86 **College of Librarianship (Wales),** *Periodical press in Britain 1580-1914,* MA (Wales)
16:87 **Durham,** *English language and medieval literature,* MA
16:88 **East Anglia,** *Creative writing,* MA
16:89 **East Anglia,** *Modern literature,* MA
16:90 **East Anglia,** *Modern literature,* MA
16:91 **Edinburgh,** *English language and literary stylistics,* MLitt/MSc/Diploma
16:92 **Edinburgh,** *English literature,* MSc
16:93 **Edinburgh,** *English studies,* MLitt
16:94 **Essex,** *American poetry,* MA
16:95 **Essex,** *Literary geography of England,* MA
16:96 **Exeter,** *English language and literature,* MA
16:97 **Glasgow,** *English language,* MPhil
16:98 **Glasgow,** *Hispanic studies and English,* MPhil
16:99 **Glasgow,** *Modern English language,* MPhil/Diploma *See page 131*
16:100 **Glasgow,** *Victorian and modern literature,* MPhil
16:101 **Hatfield Poly,** *English,* MA (CNAA), 3 yrs p-t; *course content:* lit in crisis 1890-1930; detailed study of lit of period, sp attention to questions of lit theory and nature of lit criticism; notion of crisis considered in such contexts as experimentation in lit form, lit as direct or indirect response to specific crises, writers' and critics' conceptualisation of own practice, relationship of writer to historical and cultural determinants; *yr 1:* crisis in mod society and lit, lit and crisis in consciousness; *yr 2:* crisis in lit form and expression, lit and 1st World War; intake in alternate yrs, next intake 1987. Contact Dr Winifred Crombie
16:102 **Hull,** *Music and poetry of the Elizabethan Renaissance,* MA
16:103 **Hull,** *Women and literature,* MA
16:104 **Keele,** *American literature,* MA
16:105 **Keele,** *Victorian studies,* MA
16:106 **Kent,** *Modern literature (since 1850),* MA
16:107 **Lancaster,** *Creative writing,* MA
16:108 **Lancaster,** *English language studies,* MA
16:109 **Lancaster,** *Medieval studies,* MA
6:110 **Leeds,** *American literature,* MA *See page 132*
6:111 **Leeds,** *Anglo-German literary relations,* MA
6:112 **Leeds,** *English language and medieval literature,* MA *See page 132*
16:113 **Leeds,** *English literature,* MA *See page 132*
16:114 **Leeds,** *English literature and education,* MA *See page 132*
16:115 **Leeds,** *Modern English,* MA
16:116 **Leeds,** *Victorian literature,* MA *See page 132*
16:117 **Leicester,** *Modern English and American literature,* MA
16:118 **Leicester,** *Victorian studies,* MA
16:119 **Liverpool,** *English renaissance literature,* MA
16:120 **Liverpool,** *Literature of the Victorian period,* MA
16:121 **Liverpool,** *Medieval English language and literature,* MA
16:122 **London (Birkbeck),** *Modern English literature,* MA

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16 135 **Nottingham**, *English*, MA
16 136 **Nottingham**, *Linguistics and modern English language*, MA
16 137 **Open**, *Literature*, MA
16 138 **Oxford**, *English*, MLitt
16 139 **Oxford**, *English studies*, MPhil
16 140 **Reading**, *Literature and the visual arts 1840 1940*, MA
16 141 **Reading**, *Middle English literature*, MA
16 142 **Reading**, *Politics, patronage and literature 1520 1660* MA
16 143 **St Andrews**, *Scottish literature*, MPhil
16 144 **St Andrews**, *Shakespeare studies*, MPhil
16 145 **Sheffield**, *English history and literature 1880 1920*, MA
16 146 **Sheffield**, *English language*, MA
16 147 **Sheffield**, *Language and philosophy of criticism* MA
16 148 **Sheffield**, *Modern and contemporary poetry*, MA
16 149 **Sheffield**, *Modern English language and linguistics*, MA
16 150 **Southampton**, *Romanticism and modernism* MA
16 151 **Stirling**, *Modern poetry in English*, MPhil 1 yr f t aims to develop expertise in techniques of reading and analysing poetry and to provide hist survey of development of mod poetry through close exam of work of eg Hardy Yeats Eliot Pound Auden Stevens McDiarmid Williams Lowell assessment by essays exams and dissertation **Contact** MJ Gray
16 152 **Sussex**, *Critical theory* MA
16 153 **Sussex**, *English literature*, MA
16 154 **Sussex**, *Renaissance English literature*, MA
16 155 **Sussex**, *Twentieth-century English literature*, MA
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16 161 **Wales (Bangor)**, *Arthurian literature*, MA/Diploma
16 162 **Wales (Bangor)**, *English*, MA/Diploma
16 163 **Wales (Bangor)**, *English as a second or foreign language*, MA/Diploma
16 164 **Wales (Cardiff)**, *English* MA
16 165 **Wales (Lampeter)**, *English*, MA
16 166 **Wales (Swansea)**, *Modern French and English literature*, MA
16 167 **Wales (Swansea)**, *Modern Welsh writing in English*, MA
16 168 **Warwick**, *English and renaissance drama* MA
16 169 [illegible]
16 170 [illegible]

Henry James, Thomas Hardy, Joseph Conrad, George Gissing, Virginia Woolf; *Ezra Pound and mod poetry:* detailed study of practice, technique and specific achievements of Pound, English and American contemps and successors; assessment of coursework and dissertation. **Contact** RT Jones, Senior Lecturer

16:171 **York,** ***Medieval studies: age of Sutton Hoo,*** MA/Diploma
16:172 **York,** ***Medieval studies: literature and society in later Middle Ages,*** MA

Certificates and diplomas

16:173 **Bretton Hall CHE,** ***English studies,*** Advanced Diploma
16:174 **Bulmershe CHE (Reading),** ***Children's literature,*** Diploma (CNAA)
16:175 **Dundee,** ***English literature,*** Diploma
16:176 **London (Queen Mary),** ***English literature,*** Diploma
16:177 **Middlesex Poly,** ***Humanities,*** Research Diploma
16:178 **Newcastle,** ***English language studies,*** Diploma
16:179 **N Cheshire C,** ***English studies,*** Diploma (Manchester)
16:180 **Sheffield City Poly,** ***Teaching of English to speakers of other languages,*** Diploma
16:181 **Strathclyde,** ***English as a literary language,*** Diploma
16:182 **Strathclyde,** ***English studies,*** Diploma
16:183 **Ulster,** ***Teaching of English as a foreign language,*** Diploma
16:184 **Wales (UWIST),** ***Teaching of English as a foreign language,*** Diploma
16:185 **Warwick,** ***English literature,*** Diploma

More information

is in the parent edition

Graduate Studies

at your careers service

17 History

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies' section

17.1 **Aberdeen,** *History,* MLitt/PhD
17.2 **Belfast,** *History,* MA/PhD
17.3 **Birmingham,** *Ancient history and archaeology,* MA/MLitt/PhD
17.4 [illegible]
17.5 [illegible]
17.6 [illegible]
17.7 [illegible] MLitt/PhD

17:14 **Durham,** *History,* MA/MPhil/PhD
17.15 **East Anglia,** *European history,* MPhil/PhD
17:16 **East Anglia,** *History,* MPhil/PhD
17:17 **Edinburgh,** *Ancient history,* MLitt/PhD
17.18 [illegible]
17.19 [illegible]
17.20 [illegible]
17.21 [illegible]
17.22 [illegible]

17.23 [illegible]
17.24 **Glasgow,** *American history,* MLitt/PhD
17.25 **Glasgow,** *Medieval history,* MLitt/PhD
17.26 **Glasgow,** *Modern history,* MLitt/PhD
17.27 **Glasgow,** [illegible] MLitt/PhD
17:28 [illegible]
17.29 [illegible]
17:30 [illegible]

community hist (esp Staffs, Shropshire, Cheshire); *US hist:* see Regional studies: America. Contact JHY Briggs

17:31 **Kent,** *History*, MA/PhD
17:32 **Kingston Poly,** *History*, MPhil/PhD (CNAA)
17:33 **Lancaster,** *History*, MPhil/PhD
17:34 **Leeds,** *History*, MA/MPhil/PhD
17:35 **Leicester,** *History*, MA/MPhil/PhD
17:36 **Leicester,** *Victorian studies*, MA/MPhil/PhD
17:37 **Liverpool,** *History*, MPhil/PhD; supervision available, staff research interests range from early med to recent mod hist and from hist of Britain to hist of 3rd World, sp interest and supervision in: 9th-20th cent British hist; recent Irish hist; 14th-, 15th-, 18th-20th-cent French hist; 18th-20th-cent USA and Latin-American hist; W African hist; SE Asian hist; socio-demographic and local hist with sp interest in hist of Cheshire. Contact Professor EP Hennock
17:38 **London (Birkbeck),** *History*, MPhil/PhD
17:39 **London (Goldsmiths'),** *History*, MPhil/PhD
17:40 **London (Inst Historical Research),** *Historical research*, MPhil/PhD
17:41 **London (KQC),** *Ecclesiastical history*, MPhil/PhD
17:42 **London (KQC),** *History*, MPhil/PhD
17:43 **London (LSE),** *International history*, MPhil/PhD
17:44 **London (Queen Mary),** *History*, MPhil/PhD
17:45 **London (RHBC),** *History*, MPhil/PhD
17:46 **London (SOAS),** *History of Africa*, MPhil/PhD
17:47 **London (SOAS),** *History of South Asia*, MPhil/PhD
17:48 **London (SOAS),** *History of South East Asia*, MPhil/PhD
17:49 **London (SOAS),** *History of the Far East*, MPhil/PhD
17:50 **London (SOAS),** *History of the Near and Middle East*, MPhil/PhD
17:51 **London (UC),** *History*, MPhil/PhD
17:52 **London (Warburg),** *Combined historical studies*, MPhil/PhD
17:53 **London (Westfield),** *History and history of art*, MPhil/PhD
17:54 **Loughborough,** *History*, MPhil/PhD
17:55 **Manchester,** *History*, MPhil/PhD
17:56 **Manchester Poly,** *English and history*, MPhil/PhD (CNAA)
17:57 **Manchester Poly,** *Manchester studies*, MPhil/PhD (CNAA)
17:58 **Newcastle,** *History*, MLitt/PhD
17:59 **Newcastle Poly,** *History*, MPhil/PhD (CNAA)
17:60 **N Staffs Poly,** *History*, MPhil/PhD (CNAA)
17:61 **Nottingham,** *American studies*, MPhil/PhD
17:62 **Nottingham,** *History*, MPhil/PhD
17:63 **Open,** *History*, BPhil/MPhil/PhD
17:64 **Open,** *Roman Britain*, BPhil/MPhil/PhD
17:65 **Oxford,** *Ancient history*, MLitt/DPhil
17:66 **Oxford,** *Modern history*, MLitt/DPhil
17:67 **Poly of Central London,** *History*, MPhil/PhD (CNAA)
17:68 **Poly of North London,** *History, philosophy and European studies*, MPhil/PhD (CNAA)
17:69 **Portsmouth Poly,** *Historical and literary studies*, MPhil/PhD (CNAA)
17:70 **Reading,** *History*, MPhil/PhD *See page 139*
17:71 **St Andrews,** *Medieval history*, MPhil/PhD
17:72 **St Andrews,** *Modern history*, MPhil/PhD
17:73 **St Andrews,** *Scottish history*, MPhil/PhD
17:74 **St Paul & St Mary's C,** *History*, MPhil/PhD (CNAA)
17:75 **Salford,** *Politics and contemporary history*, MSc/PhD
17:76 **Sheffield,** *History*, MPhil/PhD
17:77 **Sheffield City Poly,** *History*, MPhil/PhD (CNAA)
17:78 **Southampton,** *History*, MPhil/PhD, supervision available, staff research interests: W church 1100-1300; English political, religious and social hist c1485-1600; med historiography; 12th-cent German church; topography of Southampton; monastic estates; social hist of architecture and arts

17 79 **Stirling** *History* MLitt/PhD
17 80 **Strathclyde** *History* MA/PhD
17 81 **Sunderland Poly** *History* MPhil/PhD (CNAA)
17 82 **Sussex** *History* MPhil/DPhil
17 83 **Sussex,** *Intellectual history* MPhil/DPhil
17 84 **Sussex** *Renaissance studies* MPhil/DPhil
17 85 **Teesside Poly** *History* MPhil/PhD (CNAA)
17 86 **Thames Poly** *History* MPhil/PhD (CNAA)
17 87 **Trent Poly** *History and geography* MPhil/PhD (CNAA)
17 88 [illegible]
17 89 [illegible]
17 90 [illegible]
17 91 **Wales (Bangor)** *History* MA/PhD *See page 139*
17 92 [illegible]
17 93 [illegible]
17 94 [illegible]
17 95 [illegible]
17 96
17 97 [illegible]
17 98 [illegible]
17 99 [illegible]
17 100 [illegible]
17 101 **York,** *History* MA/MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

17 102 [illegible]
17 103
17 104
17 105
17 106 **Brighton Poly** *Regional history* MA/Diploma (CNAA)
17 107 **Bristol Poly** *Historical studies* MA (CNAA)
17 108 **Buckingham** *History* MA/Diploma
17 109 **College of Librarianship (Wales)** *Periodical press in Britain 1580 1914* MA (Wales)
17 110 **Coventry (Lanchester) Poly** *Modern historical and political studies* MA/Diploma (CNAA)
17 111 **Durham** *Modern Middle Eastern history* MA
17 112 **East Anglia** *English history* MA
17 113 **East Anglia** *European history* MA
17 114 **East Anglia** *Local and regional history* MA
17 115 **Edinburgh** *History* MSc
17 116 **Edinburgh** *Scottish history* MLitt
17 117 **Essex** *Comparative history modernisation and development* MA/Diploma
17 118 **Glasgow** *History* MPhil
17 119 **Huddersfield Poly** *History* MA (CNAA)

17:120 Hull, *Historical computation,* MA
17:121 Keele, *United States history and institutions,* MA
17:122 Keele, *Victorian studies,* MA, 2 yrs f-t: 3 yrs p-t; *course comprises: Victorian society:* work, culture, religion and authority; *Victorian lit:* treatment in imaginative lit of social and other themes in 19th-cent lit with sp ref to Dickens, George Eliot, Tennyson, Browning and Hardy; *thought and culture in 19th-cent England:* J S Mill and utilitarianism; Macaulay, Carlyle and uses of hist; J H Newman, theology and religion; survival, revival and innovation in art and architecture; Matthew Arnold and politics of culture; new scientific temper; art and society: Ruskin and William Morris; exam and course paper in each of above areas, dissertation; transfer to PhD possible after 1 yr f-t or 2 yrs p-t: PhD students complete all course work for MLitt but in place of dissertation write a PhD thesis, presented on completion of 3 yrs (f-t), 5 yrs (p-t). **Contact** JHY Briggs
17:123 Kent, *Modern history,* MA
17:124 Lancaster, *Historical research,* MA *See page 138*
17:125 Leeds, *British history,* MA
17:126 Leeds, *Education and local history,* MA
17:127 Leeds, *International history,* MA
17:128 Leeds, *Local and regional history,* MA
17:129 Leeds, *Medieval studies,* MA
17:130 Leicester, *English local history,* MA, 1c yr f-t; training in use of documentary and visual evidence of local hist and in hist reconstruction of local and provincial society in England; methods and materials of English local hist, English topography (gen and selected region for detailed study, selected urban and rural communities), regional popular culture, local societies and change, palaeography; 4 exam papers and dissertation. **Contact** Registrar (Higher Degrees)
17:131 Leicester, *Victorian studies,* MA
17:132 Liverpool, *French and history,* MA
17:133 Liverpool, *Local history,* MA
17:134 Liverpool, *Medieval studies,* MA
17:135 London (Birkbeck), *Commonwealth history,* MA
17:136 London (Birkbeck), *Early modern English history,* MA
17:137 London (Birkbeck), *Historical geography,* MA
17:138 London (Birkbeck), *Medieval studies,* MA
17:139 London (Birkbeck), *Renaissance studies,* MA
17:140 London (Birkbeck), *Victorian studies,* MA
17:141 London (Goldsmiths'), *History of the European labour movement,* MA
17:142 London (Inst Commonwealth Studies), *Area studies: Commonwealth,* MA
17:143 London (Inst Ed), *History in education,* MA
17:144 London (KQC), *English and European history of the twelfth and thirteenth centuries,* MA
17:145 London (KQC), *European, literary and historical studies,* MA
17:146 London (LSE), *International history,* MA/MSc
17:147 London (RHBC), *Late antique and Byzantine studies,* MA
17:148 London (RHBC), *Later medieval studies,* MA
17:149 London (SOAS), *Oriental and African history,* MA
17:150 London (SSEES), *Central and Eastern European history,* MA
17:151 London (UC), *History and social anthropology,* MA
17:152 London (Warburg), *Combined historical studies: the Renaissance,* MPhil
17:153 London (Westfield), *Medieval studies,* MA, 1 yr f-t (deg in arts subj usually req); opportunity for interdisciplinary and/or comparative study within wide range of disciplines; *course content:* med lang not studied at u-g level, methods and techniques in med studies; 2 specialised options within hist, hist of art, med Latin, Icelandic, Old English, Middle English, Old High German, Middle High German, Old Saxon, Old French, Old Provencal, Old Spanish, Old Galician, Old Portuguese, Catalan, Old Italian; exam, dissertation. **Contact** Registrar
17:154 Loughborough, *History and education,* MA
17:155 Manchester Poly, *History of the Manchester region,* MA (CNAA)
17:156 Newcastle, *Ancient history,* MA
17:157 Nottingham, *American studies,* MA
17:158 Nottingham, *Local and regional history,* MA
17:159 Oxford, *Ancient history,* MPhil/MSt

17 160 **Oxford,** *European and English history* MPhil
17 161 **Oxford** *History of British Commonwealth and Empire and of United States* MPhil
17 162 **Oxford** *Modern history* MSt
17 163 **Poly of Central London** *Twentieth century historical studies* MA
17 164 **Reading** *History of the English landscape* MA *See page 139*
17 165 **Reading** *Medieval studies* MA/MPhil
17 166 **Reading** *Politics patronage and literature 1520 1660* MA
17 167 **St Andrews,** *Classics and ancient history* MLitt/Diploma
17 168 **St Andrews,** *Medieval history* MLitt/MPhil/Diploma
17 169 **St Andrews** *Medieval studies* MLitt/Diploma
17 170 [illegible]
17 171
17 172
17 173
17 174
17 175 **Sussex,** *History* MA
17 176 **Sussex,** *Intellectual history* MA
17 177 **Sussex,** *Renaissance studies* MA
17 178 **Teesside Poly,** *Local history* MA (CNAA)
17 179 **Thames Poly,** *Historical studies* MA (CNAA)
17 180 **Ulster,** *Early modern history* MA/Diploma
17 181 **Ulster,** *Modern and contemporary history* MA/Diploma
17 182 **Wales (Aberystwyth)** *History* MA
17 183 **Wales (Bangor),** *Tudor government* MA
17 184 **Wales (Bangor),** *Welsh history* MA
17 185 **Wales (Cardiff),** *History* MA
17 186 **Wales (Cardiff),** *Welsh history* MA
17 187 **Wales (Swansea)** *Ancient history* MA
17 188 **Wales (Swansea)** *History,* MA
17 189 [illegible]
17 190 [illegible]
17 191 [illegible]
17 192 [illegible]
17 193
17 194
17 195
17 196
17 197
17 198

Certificates and diplomas

17 199 **Cambridge,** *Historical studies* Diploma
17 200 **Lancaster,** *Historical studies* Diploma *See page 138*
17 201 **Manchester Poly,** *Local history* Diploma
17 202 **New C (Durham)** *Teaching of history* Diploma (Hist Assoc)
17 203 **Portsmouth Poly,** *English local history* Diploma

University of Lancaster

MA Modern social history [illegible]

MA History of science [illegible]

MA Historical research [illegible]

Diploma Historical studies [illegible]

[illegible]

WESTFIELD COLLEGE

(University of London)

FACULTY OF ARTS

MA Courses available
(One year full-time)
(Two years part-time)

- Classics
- German
- Hispanic Studies
- Medieval Studies *(full-time only)*
- Romance Languages and Literatures (French, Italian, Spanish)

Supervision for research degrees available in departments of

- Classics
- Drama
- English
- French
- German
- History
- History of Art
- Spanish

Westfield College, founded in 1882, is situated in a garden site of approximately ten acres, off the Finchley Road, roughly midway between Golders Green and Swiss Cottage about a quarter of a mile from the edge of Hampstead Heath. It is within easy reach of central London, the University of London Union, the Senate House Library, and other institutions and colleges of the University. The College's Caroline Skeel Library contains over 100,000 books and pamphlets and more than 20 000 bound volumes of periodicals. Computing facilities are provided by the Computer Unit where particular attention is paid to the needs of arts students.

Further information on postgraduate study in the College is available from the Registrar, Westfield College, Kidderpore Avenue Hampstead London NW3 7ST

Index by subject headings

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18 International studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

18:1 **Aberdeen,** *Politics*, MLitt/PhD
18:2 **Birmingham,** *Political science and international studies*, MSocSc/MPhil/PhD
18:3 **Bradford,** *Peace studies*, MPhil/PhD
18:4 **Coventry (Lanchester) Poly,** *Politics and history*, MPhil/PhD (CNAA)
18:5 **East Anglia,** *Politics including international relations*, MPhil/PhD
18:6 **Edinburgh,** *Public international law*, MPhil/PhD
18:7 **Keele,** *International relations*, MA/PhD; supervision available for research in following fields: *international peace-keeping and security:* international peace-keeping; arms control and disarmament; *international organisation:* approaches to organisations of international society, political aspects of UN, European unification, League of Nations, Permanent Court of International Justice, pacific settlement of international disputes; *theory of international relations:* hist of international thought; problems of sovereignty, intervention, human rights; cultural approaches to world politics; theory of international law and morality; *British foreign policy:* British foreign policy 1919-57, British war aims in 2nd World War, civil aviation, British relations with S Africa since 1960, British security policy; current projects inc: international peace-keeping, human rights, British security policy, League of Nations, hist of international thought. Contact Dr H Suganami
18:8 **Kent,** *International relations*, MPhil/PhD
18:9 **Lancaster,** *Conflict and peace research*, MPhil/PhD
18:10 **Lancaster,** *Politics*, MPhil/PhD
18:11 **London (Inst Commonwealth Studies),** *Commonwealth studies*, MPhil/PhD
18:12 **London (KQC),** *War studies*, MPhil/PhD
18:13 **London (LSE),** *International history*, MPhil/PhD
18:14 **London (LSE),** *International relations*, MPhil/PhD
18:15 **Manchester,** *Military studies*, MPhil/PhD
18:16 **N Staffs Poly,** *International relations and politics*, MPhil/PhD (CNAA)
18:17 **Oxford,** *International relations*, MLitt/DPhil
18:18 **Reading,** *European and international studies*, MPhil/PhD
18:19 **St Andrews,** *Politics (international studies)*, MPhil/PhD
18:20 **Salford,** *International studies*, MPhil/PhD
18:21 **Southampton,** *Politics*, MPhil/PhD
18:22 **Surrey,** *Linguistic and international studies*, MPhil/PhD
18:23 **Sussex,** *International relations*, MPhil/DPhil
18:24 **Teesside Poly,** *International relations*, MPhil/PhD (CNAA)
18:25 **Wales (Aberystwyth),** *Economics and economic history*, MSc(Econ)/PhD
18:26 **Wales (Aberystwyth),** *International politics*, MSc(Econ)/PhD
18:27 **Warwick,** *International studies*, MPhil/PhD *See page 143*

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

18:28 **Aberdeen,** *Strategic studies*, MLitt

42 **Lancaster,** *Science technology and international affairs*, MA
43 **Leeds,** *International history*, MA
44 **London (Birkbeck),** *Commonwealth history*, MA
45 **London (Inst Commonwealth Studies),** *Area studies Commonwealth* MA
50 **Plymouth Poly,** *International shipping*, MSc (CNAA)
51 **Reading,** *International business and economic development*, MA
52 **Reading,** *International business and economic integration*, MA
53 **Reading,** *International business and international financial management*, MA
54 **Reading,** *International studies*, MA
55 **Salford,** *International studies*, MA *See page 142*
56 ...

for MSc(SocSc) Contact F Gregory
57 **Surrey,** *International hotel management*, MSc/Diploma
58 **Sussex,** *International relations*, MA
59 **Ulster,** *International business and industrial development*, MBA
60 **Wales (Aberystwyth),** *Strategic studies*, MSc(Econ) *See page 143*
61 **Wales (UWIST),** *Business administration*, MBA
62 **Wales (UWIST),** *International economics and banking*, MSc(Econ)
63 **Warwick,** *International studies* MA

Certificates and diplomas

64 **Cambridge,** *International law*, Diploma
65 **Lancaster,** *International studies*, Diploma 1c yr f t, preparation for research for those with insufficient quals for direct entry *coursework* choice from politics of international insts, foreign

policy analysis, politics of security, conflicts and violence, US foreign policy since 1945, arms control and disarmament, politics of EC, foreign relations of African states, superpowers in world politics, international political economy. Contact RP Barston (I R)

18:66 **Liverpool,** *International law*, Diploma
18:67 **London (LSE),** *International and comparative politics*, Diploma
18:68 **London (UC),** *International law*, Diploma
18:69 **Manchester,** *International law*, Diploma
18:70 **N Staffs Poly,** *International marketing*, Diploma
18:71 **Poly of Central London,** *East-West trade studies*, Diploma
18:72 **Teesside Poly,** *International management*, DMS (CNAA)
18:73 **Wales (Aberystwyth),** *International law and relations*, Diploma
18:74 **Wales (UWIST),** *Business administration*, DBA
18:75 **Warwick,** *International studies*, Diploma *See page 143*

19 Languages and linguistics: general

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

19:1 **Aston,** *Modern languages,* MPhil/PhD; supervision available, research interests in following areas: *contemp French and German studies:* French political and social studies, German political and social studies, European social and intellectual hist; *lang and linguistic studies:* French lang studies, German lang studies, English lang studies, lang learning and teaching, lang planning and use, lang and computing Contact Professor DE Ager

19:2 **Belfast,** *French and romance philology,* MA/PhD

19:3 **Bradford,** *Languages and European studies,* MPhil/PhD

19:4 **Brunel,** *Languages and linguistics,* MPhil/PhD

19:5 **Cambridge,** *Modern and medieval languages,* MLitt/PhD

19:6 **Coventry (Lanchester) Poly,** *Language studies,* MPhil/PhD (CNAA)

19:7 **Durham,** *English,* MA/MLitt/PhD

19:8 **East Anglia,** *Language, linguistics and teaching English as a foreign language,* MPhil/PhD

19:9 **East Anglia,** *Linguistics,* MPhil/PhD

19:10 **Edinburgh,** *Linguistics,* MLitt/PhD

19:11 **Essex,** *Linguistics,* MSc/MPhil/PhD

19:12 **Exeter,** *Linguistics,* MPhil/PhD

19:13 **Glasgow,** *Linguistics and phonetics,* MLitt/PhD

19:14 **Heriot-Watt,** *Languages,* MLitt/PhD

19:15 **Lancaster,** *Linguistics and modern English language,* MPhil/PhD

19:16 **Leeds,** *Linguistics and phonetics,* MA/MPhil/PhD

19:17 **Liverpool,** *Linguistics,* MPhil/PhD

19:18 **Liverpool Poly,** *Languages,* MPhil/PhD (CNAA)

19:19 **London (Birkbeck),** *Applied linguistics,* MPhil/PhD

19:20 **London (SOAS),** *Phonetics and linguistics,* MPhil/PhD

19:21 **London (UC),** *Linguistics and phonetics,* MPhil/PhD; supervision available, research interests inc: *linguistics.* syntactic, semantic and phonological theory esp within framework of generative grammar, descriptive study of particular langs, sociolinguistics, psycholinguistics with sp ref to aphasia and to 1st lang acquisition, phil of lang and pragmatics; *phonetics* investigation of various aspects of speech and lang; linguistic phonetic research mainly concerned with analysis and description of sound systems of lang as contribution to gen linguistic theory and to practical study of pronunciation; subjs inc· phonetic and phonemic structure of living langs, historical phonetics, varieties of mod English; phonetics lab concerned with exptl study of perception and production of speech inc normal and abnormal conditions. Contact Professor NV Smith

19:22 **Manchester,** *General linguistics,* MPhil/PhD

19:23 **Nottingham,** *Linguistics,* MPhil/PhD

19:24 **Oxford,** *Medieval and modern languages,* MLitt/DPhil

19:25 **Poly of Central London,** *Languages,* MPhil/PhD

19:26 **Portsmouth Poly,** *Languages and area studies,* MPhil/PhD (CNAA)

19:27 **Reading,** *Applied language studies,* MPhil/PhD

19:28 **Reading,** *Linguistic science,* MPhil/PhD

19:29 **Salford,** *Modern languages,* MSc/PhD; supervision available, main areas of research interests in mod lit and linguistics (theoretical and applied) esp with ref to hist and description of following langs· Arabic, English, French, German, Spanish, Italian, also various other subsid langs, also interests in regional studies. Contact Administrative Officer, Dept of Modern Languages

9 30 **Sheffield,** *Linguistics,* MPhil/PhD
9 31 **Sheffield City Poly,** *Modern languages,* MPhil/PhD (CNAA)
9 32 **Southampton,** *Languages,* MPhil/PhD
9 33 **Southampton,** *Linguistics,* MPhil/PhD
19 34 **Sunderland Poly,** *Languages and cultures,* MPhil/PhD (CNAA)
19 35 **Surrey,** *Linguistic and international studies,* MPhil/PhD
9 36 **Sussex,** *Cognitive studies,* MPhil/DPhil
9 37 **Sussex,** *Linguistics,* MPhil/DPhil
9 38 **Ulster,** *European studies and modern languages,* MPhil/DPhil
19 39 **Ulster,** *Communication,* MPhil/DPhil
19 40 **Ulster,** *European studies and modern languages,* MPhil/DPhil
19 41 **Wales (Bangor),** *Linguistics,* MA/PhD
19 42 **York,** *Communication studies,* MPhil/DPhil
19 43 **York,** *Language (including linguistics),* MA/MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

9 44 **Aberdeen,** *English language as a literary medium,* MLitt
9 45 **Aston,** *Teaching of English for specific purposes,* MSc/Diploma 1c yr f t (MSc) 6 mths p t

Ager
9 46 **Belfast,** *Applied English linguistics,* MA
9 47 **Birmingham,** *Applied English linguistics,* MA/Diploma
9 48 **Birmingham,** *Special applications of linguistics,* MA
9 49 **Bradford,** *Interpreting and translating,* MA/Diploma
9 50 **Cambridge,** *Computer speech and language processing,* MPhil
9 51 **Cambridge,** *Linguistics,* MPhil
9 52 **Christ Church C (Canterbury),** *Teaching of English as a foreign language,* MA/Diploma
9 53 **Durham,** *Applied linguistics,* MA
9 54 **East Anglia,** *Linguistics,* MA
9 55 **East Anglia,** *Teaching English as a foreign language,* MA/Diploma
9 56 **Edinburgh,** *Applied linguistics,* MSc/Diploma
9 57 **Edinburgh,** *General linguistics,* MSc/Diploma
9 58 **Edinburgh,** *Phonetics,* MSc/Diploma
9 59 **Essex,** *Applied linguistics,* MA
9 60 **Essex,** *Cognitive science,* MSc
9 61 **Essex,** *Descriptive and applied linguistics,* MA
9 62 **Essex,** *Linguistics and phonetics,* MA
9 63 **Essex,** *Theoretical linguistics,* MA
9 64 **Exeter,** *Linguistics,* MA/Diploma 1 yr f t, *course content theoretical linguistics* transformational generative grammar, systemic grammar, semantics phonetics and phonology English vocabulary *applied linguistics* text typology, trans, lexicography lang teaching methodology, sociolinguistics psycholinguistics assessment of coursework, exam, plus dissertation for MA Contact Dr Connor Ferris
9 65 **Glasgow,** *Linguistics and phonetics,* MPhil
9 66 **Hatfield Poly,** *Linguistics with special reference to its applications,* MA (CNAA) 2 yrs p t (first deg in linguistics not req but accepted) designed for those interested in adv study of lang, relevant to

those professionally concerned with lang, aims to bridge gap between academic linguistic research and interests and needs of others concerned with lang; *part 1:* nature of lang; core courses in theoretical and descriptive linguistics; *part 2:* linguistic study and its applications; social and psychol aspects of lang plus two sp interest areas (options currently available: linguistics and teaching of lang skills, linguistics and lit, linguistics and English as a foreign lang); *part 3:* dissertation; assessment by exams, in-course assessment, dissertation; entry in alternate yrs, next entry February 1988. Contact Dr Winifred Crombie

19:67 **Hull,** *Russian and general phonetics,* MA

19:68 **Kent,** *Applied linguistics,* MA/Diploma

19:69 **Lancaster,** *English language studies,* MA

19:70 **Lancaster,** *Linguistics for English language teaching,* MA

19:71 **Leeds,** *Linguistics,* MA/Diploma *See page 149*

19:72 **Leeds,** *Linguistics and English language teaching,* MA *See page 149*

19:73 **Leeds,** *Linguistics and foreign language teaching,* MA *See page 149*

19:74 **Leeds,** *Logic and philosophy of language,* MA

19:75 **Leeds,** *Speech sciences,* MA *See page 149*

19:76 **Liverpool,** *Medieval studies,* MA

19:77 **London (Birkbeck),** *Philosophy and psychology of language,* MA

19:78 **London (Birkbeck),** *Second language learning and teaching,* MA

19:79 **London (Inst Ed),** *Teaching of English to speakers of other languages,* MA

19:80 **London (RHBC),** *English language and stylistics,* MA

19:81 **London (SOAS),** *Linguistics,* MA

19:82 **London (SOAS),** *Phonetics,* MA

19:83 **London (UC),** *Linguistics,* MA

19:84 **London (UC),** *Phonetics,* MA

19:85 **Manchester,** *General linguistics,* MA/MLing

19:86 **Manchester,** *Linguistics,* BLing

19:87 **Nottingham,** *Linguistics and modern English language,* MA

19:88 **Oxford,** *Comparative philology and general linguistics,* MLitt/Diploma; degs examined solely by thesis, prepared under guidance of supervisors appointed by Committee for Comparative Philology and General Linguistics; after study in Oxford of at least a year an MPhil dissertation can be expanded and submitted for the DPhil deg; facilities in these areas inc outstanding library provision, active computing service, language teaching centre and fully equipped phonetics lab; for further details write in first inst to The Secretary, Committee for Comparative Philology and General Linguistics, University Offices, Wellington Square, Oxford OX1 2JD. **Contact** Dr L Loughran

19:89 **Oxford,** *General linguistics and comparative philology,* MPhil/MSt, 2 yrs f-t (MPhil), 1 yr f-t (MSt); adv study of gen linguistics and comparative philology of Indo-European langs; *coursework:* linguistic theory; plus *either:* 3 of phonetics, phonology, syntax, semantics, hist and comparative linguistics, theory of trans, hist and structure of a lang, sociolinguistics, other approved subj; *or* 3 of comparative grammar of 2 Indo-European langs or lang-gps, hist grammar of 2 langs or lang-gps selected, trans from and linguistic comment on texts in langs selected; *or* hist of one or two langs, structure of lang or langs selected and *either* trans from, and/or linguistic comment upon, texts in lang or langs selected *or* paper on phonetics, phonology, syntax, semantics, hist and comparative linguistics, or theory of trans; thesis for MPhil; for further details write in first inst to The Secretary, Committee for Comparative Philology and General Linguistics, University Offices, Wellington Square, Oxford OX1 2JD. **Contact** Dr L Loughran

19:90 **Reading,** *Applied linguistics,* MA/MPhil

19:91 **Reading,** *Linguistics,* MA/MPhil

19:92 **Reading,** *Teaching English as a foreign language,* MA/Diploma

19:93 **St Andrews,** *Linguistics and social anthropology,* MLitt

19:94 **St Mary's C (Strawberry Hill),** *Linguistics in education,* MA (Surrey)

19:95 **Salford,** *Advanced language studies,* MA/Diploma, 1c yr f-t: 2 yrs p-t (MA), 1 yr f-t: 2 yrs p-t (Diploma) (hons deg in 2 of French, Spanish and German normally req); modular course system within MA/MSc modular studies scheme (see Science, technology and society); *course content:* study of 2 langs from: French, German, Spanish; *course content:* choice of modules from list inc: French interpreting, French trans, German interpreting, German trans, Spanish interpreting, Spanish trans, theory of trans, simultaneous interpretation, extended trans, intro linguistics, gen

stylistics aims and methods of linguistics assessment by coursework and exams plus specialised trans or project plus dissertation for MA Contact Administrative Officer, Dept of Modern Languages

9 96 **Salford**, *Applied linguistics with special reference to the Arab world*, MA
9 97 **Salford**, *Interpretation*, MA
9 98 **Salford**, *Translation*, MA
9 99 [illegible]

100 [illegible]
101 [illegible]
102 **Sheffield**, *Modern English language and linguistics*, MA
103 **Strathclyde**, *Linguistics for the teaching of English language and literature*, MLitt/Diploma/Certificate See page 150
104 **Sunderland Poly**, *Modern literary studies*, MA/Diploma (CNAA)
105 **Surrey**, *Translation*, MA/Diploma See page 151
106 **Sussex**, *Linguistics*, MA
107 **Ulster**, *Clinical and applied linguistics*, MSc/Diploma/Certificate
108 [illegible]
109 [illegible]
110 [illegible]
111 [illegible]
112 **Wales (Bangor)**, *Theoretical linguistics*, MA/Diploma
113 **Wales (Cardiff)**, *Welsh linguistic studies*, MA/Diploma
114 **Wales (Lampeter)**, *Philosophy*, MA
115 **Warwick**, *English language teaching*, MA
116 **Warwick**, *Teaching Italian as a foreign language*, MA
117 **York**, *Linguistics* MA See page 149
118 **York**, *Linguistics and English language teaching* MA See page 149

Certificates and diplomas

119 **Bath**, *Language studies (interpreting and translating)*, Diploma
120 **Bristol Poly**, *Foreign languages for business* Diploma
121 **Ealing CHE**, *English studies for language teaching methodology and materials*, Diploma
122 **Essex**, *Applied linguistics, phonetics and teaching of English*, Diploma
123 **Huddersfield Poly**, *Language and literacy* Certificate
124 **Kent**, *Vocational techniques for career linguists* Diploma
125 **Leeds**, *Phonetics of English*, Diploma See page 149
126 **Leeds**, *Teaching English overseas* Diploma
127 **Leeds Poly**, *Bilingual information administration*, Diploma
128 **London (Inst Ed)**, *Education with special reference to role of language in education* Diploma
129 **London (Inst Ed)**, *Teaching of English to speakers of other languages*, Diploma/Certificate
130 **London (SOAS)**, *Linguistics*, Diploma
131 **London (UC)**, *Linguistics*, Diploma
132 **Manchester**, *Teaching of English to speakers of other languages*, Diploma/Certificate
133 [illegible]
134 [illegible]
135 [illegible]
136 [illegible]
137 [illegible]

those professionally concerned with lang, aims to bridge gap between academic linguistic research and interests and needs of others concerned with lang; *part 1:* nature of lang; core courses in theoretical and descriptive linguistics; *part 2:* linguistic study and its applications; social and psychol aspects of lang plus two sp interest areas (options currently available: linguistics and teaching of lang skills, linguistics and lit, linguistics and English as a foreign lang); *part 3:* dissertation; assessment by exams, in-course assessment, dissertation; entry in alternate yrs, next entry February 1988. **Contact** Dr Winifred Crombie

19:67 **Hull,** *Russian and general phonetics,* MA

19:68 **Kent,** *Applied linguistics,* MA/Diploma

19:69 **Lancaster,** *English language studies,* MA

19:70 **Lancaster,** *Linguistics for English language teaching,* MA

19:71 **Leeds,** *Linguistics,* MA/Diploma *See page 149*

19:72 **Leeds,** *Linguistics and English language teaching,* MA *See page 149*

19:73 **Leeds,** *Linguistics and foreign language teaching,* MA *See page 149*

19:74 **Leeds,** *Logic and philosophy of language,* MA

19:75 **Leeds,** *Speech sciences,* MA *See page 149*

19:76 **Liverpool,** *Medieval studies,* MA

19:77 **London (Birkbeck),** *Philosophy and psychology of language,* MA

19:78 **London (Birkbeck),** *Second language learning and teaching,* MA

19:79 **London (Inst Ed),** *Teaching of English to speakers of other languages,* MA

19:80 **London (RHBC),** *English language and stylistics,* MA

19:81 **London (SOAS),** *Linguistics,* MA

19:82 **London (SOAS),** *Phonetics,* MA

19:83 **London (UC),** *Linguistics,* MA

19:84 **London (UC),** *Phonetics,* MA

19:85 **Manchester,** *General linguistics,* MA/MLing

19:86 **Manchester,** *Linguistics,* BLing

19:87 **Nottingham,** *Linguistics and modern English language,* MA

19:88 **Oxford,** *Comparative philology and general linguistics,* MLitt/Diploma; degs examined solely by thesis, prepared under guidance of supervisors appointed by Committee for Comparative Philology and General Linguistics; after study in Oxford of at least a year an MPhil dissertation can be expanded and submitted for the DPhil deg; facilities in these areas inc outstanding library provision, active computing service, language teaching centre and fully equipped phonetics lab; for further details write in first inst to The Secretary, Committee for Comparative Philology and General Linguistics, University Offices, Wellington Square, Oxford OX1 2JD. **Contact** Dr L Loughran

19:89 **Oxford,** *General linguistics and comparative philology,* MPhil/MSt, 2 yrs f-t (MPhil), 1 yr f-t (MSt); adv study of gen linguistics and comparative philology of Indo-European langs; *coursework:* linguistic theory; plus *either:* 3 of phonetics, phonology, syntax, semantics, hist and comparative linguistics, theory of trans, hist and structure of a lang, sociolinguistics, other approved subj; *or* 3 of comparative grammar of 2 Indo-European langs or lang-gps, hist grammar of 2 langs or lang-gps selected, trans from and linguistic comment on texts in langs selected; *or* hist of one or two langs, structure of lang or langs selected and *either* trans from, and/or linguistic comment upon, texts in lang or langs selected *or* paper on phonetics, phonology, syntax, semantics, hist and comparative linguistics, or theory of trans; thesis for MPhil; for further details write in first inst to The Secretary, Committee for Comparative Philology and General Linguistics, University Offices, Wellington Square, Oxford OX1 2JD. **Contact** Dr L Loughran

19:90 **Reading,** *Applied linguistics,* MA/MPhil

19:91 **Reading,** *Linguistics,* MA/MPhil

19:92 **Reading,** *Teaching English as a foreign language,* MA/Diploma

19:93 **St Andrews,** *Linguistics and social anthropology,* MLitt

19:94 **St Mary's C (Strawberry Hill),** *Linguistics in education,* MA (Surrey)

19:95 **Salford,** *Advanced language studies,* MA/Diploma, 1c yr f-t: 2 yrs p-t (MA), 1 yr f-t: 2 yrs p-t (Diploma) (hons deg in 2 of French, Spanish and German normally req); modular course system within MA/MSc modular studies scheme (see Science, technology and society); *course content:* study of 2 langs from: French, German, Spanish; *course content:* choice of modules from list inc: French interpreting, French trans, German interpreting, German trans, Spanish interpreting, Spanish trans, theory of trans, simultaneous interpretation, extended trans, intro linguistics, gen

stylistics aims and methods of linguistics assessment by coursework and exams plus specialised trans or project plus dissertation for MA Contact Administrative Officer Dept of Modern Languages

96 **Salford,** *Applied linguistics with special reference to the Arab world,* MA
97 **Salford,** *Interpretation,* MA
98 **Salford,** *Translation,* MA
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103 **Strathclyde,** *Linguistics for the teaching of English language and literature,* MLitt/Diploma/Certificate *See page 150*
104 **Sunderland Poly,** *Modern literary studies,* MA/Diploma (CNAA)
105 **Surrey,** *Translation,* MA/Diploma *See page 151*
106 **Sussex,** *Linguistics,* MA
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116 **Warwick,** *Teaching Italian as a foreign language,* MA
117 **York,** *Linguistics* MA *See page 149*
118 **York,** *Linguistics and English language teaching,* MA *See page 149*

Certificates and diplomas

119 **Bath,** *Language studies (interpreting and translating),* Diploma
120 **Bristol Poly,** *Foreign languages for business,* Diploma
121 **Ealing CHE,** *English studies for language teaching methodology and materials* Diploma
122 **Essex,** *Applied linguistics, phonetics and teaching of English,* Diploma
123 **Huddersfield Poly,** *Language and literacy,* Certificate
124 **Kent,** *Vocational techniques for career linguists,* Diploma
125 **Leeds,** *Phonetics of English,* Diploma *See page 149*
126 **Leeds,** *Teaching English overseas,* Diploma
127 **Leeds Poly,** *Bilingual information administration,* Diploma
128 **London (Inst Ed),** *Education with special reference to role of language in education,* Diploma
129 **London (Inst Ed),** *Teaching of English to speakers of other languages,* Diploma Certificate
130 **London (SOAS),** *Linguistics,* Diploma
131 **London (UC),** *Linguistics,* Diploma
132 **Manchester,** *Teaching of English to speakers of other languages,* Diploma/Certificate
133 **Newcastle,** *English language studies,* Diploma
134 **NE London Poly,** *Applied linguistics,* Diploma (CNAA)
135 **Poly of Central London,** *Conference interpretation techniques,* Diploma
136 **Poly of Central London,** *Linguistics,* Diploma (CNAA)
137 **Poly of Central London,** *Technical and specialised translation,* Diploma

19:138 **Portsmouth Poly,** *Linguistics*, Diploma
19:139 **Reading,** *General and applied English linguistics*, Diploma
19:140 **Reading,** *Remedial language studies*, Diploma
19:141 **St Mark & St John C (Plymouth),** *English language teaching*, Diploma (Exeter)
19:142 **St Mary's C (Strawberry Hill),** *Teaching of English as a second language*, Diploma (Surrey)
19:143 **Sheffield,** *Linguistics*, Diploma
19:144 **Sheffield City Poly,** *Teaching of English to speakers of other languages*, Diploma
19:145 **South Bank Poly,** *Business linguist studies*, Diploma
19:146 **Ulster,** *Teaching of English as a foreign language*, Diploma
19:147 **Wales (UWIST),** *Teaching of English as a foreign language*, Diploma, 1 yr f-t (deg or approve equiv plus teacher training and/or experience req); *course content:* phonetics of mod Englis description of mod English, principles and practice of lang teaching applied to TEFL, applic linguistics, practical work inc audio-visual techniques; adv instruction in English (inc pronunci tion drill) for overseas students if req; exam, assessment of coursework and project. Contact Tench
19:148 **Warwick,** *English language teaching and administration*, Diploma
19:149 **Warwick,** *Language improvement and methodology*, Certificate

THE UNIVERSITY OF LEEDS

Department of Linguistics and Phonetics

Applications are invited for entry to the following one-year postgraduate courses

MA in Linguistics and English Language Teaching
covers general linguistics, phonetics, and the theory and practice of language teaching

MA in Linguistics and Foreign Language Teaching
covers similar topics to the above, but directed towards teachers of foreign languages

MA in Speech Sciences
covers general and experimental phonetics phonology, and a wide range of options in linguistic and phonetic aspects of normal and abnormal speech

MA/Postgraduate Diploma in Linguistics
covers topics in general linguistics and phonetics, independently of specific applications such as language teaching

Postgraduate Diploma in the Phonetics of English
provides a thorough grounding in English phonetics and phonology either as a professional qualification for specialist EFL teachers or as a basis for further work

Facilities are also available for research degrees (MA, MPhil, PhD)

Further information and application forms from The Postgraduate Admissions Tutor, Department of Linguistics and Phonetics, University of Leeds, Leeds LS2 9JT Tel (0532) 431751

THE UNIVERSITY OF YORK
Department of Language and Linguistic Science

Applications are invited for entry to the following one year postgraduate courses

MA in Linguistics and English Language Teaching covering descriptive linguistics and language teaching theory and methodology (NB this course is only open to applicants with substantial teaching experience)

MA in Linguistics *(a)*
covering general linguistics and phonetics, psycholinguistics and sociolinguistics

MA in Linguistics *(b)*
an initial research degree open only to applicants with a first degree in Linguistics, comparable to the Department's own BA

We also welcome applications from suitably qualified graduates for the research degrees of MPhil and DPhil

Further information and application forms from the Graduate office, University of York, Heslington York YO1 5DD, England

UNIVERSITY OF EXETER – THE LANGUAGE CENTRE

Applied Linguistics (EFL), MA, 1 yr f-t; *course content:* English Phonology, English Grammar, English varieties, Language Acquisition, Testing, Course Design, Teaching Methodology, plus options especially for use of computers; assessment by continuous coursework and exam, with dissertation.

Contact: Dr Connor Ferris
– Acting Director

The Language Centre
University of Exeter
Queen's Building
The Queen's Drive
Exeter
Devon EX4 4QH

Heriot-Watt University, Edinburgh



Translation & Interpreting

PhD/Masters/Diploma in Arabic-English

Heriot Watt University, Edinburgh offers a one-year MSc (Master of Science)/Diploma course in Translation and Interpreting designed for native speakers of Arabic The syllabus includes.

- **translation Arabic-English, English-Arabic; on-sight and specialized translation**
- **bilateral and consecutive interpreting**
- **text linguistics and translation theory**
- **documentation and word-processing**
- **ancillary skills (revision, editing, etc)**
- **Socio-culture of the Arabic and English speaking worlds**

Applications are invited for October 1987 Applicants must hold a good undergraduate degree in English studies or an equivalent qualification

Candidates who already possess a Masters degree in the field of translation may be registered for a PhD by research

The University's Department of Languages has an established reputation and wide experience in the area of applied language studies, including postgraduate Arabic-English translation and interpreting, of which it has been a pioneer in the UK

Fees £3,580 (1986-87)

Further details and application forms from Admissions Secretary, Department of Languages, Heriot-Watt University, Chambers Street, Edinburgh EH1 1HX, Great Britain Tel 031-225 8432 Ext. 140

Closing date for applications. 1st September

Programme in Literary Linguistics

University of Strathclyde
Department of English Studies

MLitt IN LINGUISTICS FOR THE TEACHING OF ENGLISH LANGUAGE AND LITERATURE

A one-year full-time instructional course, including the description of English, theoretical and applied linguistics, stylistics, history of the English language in literature, curriculum development, and teaching methods with supervised research topics leading to a short dissertation. The course may be spread over more than one academic year.

Applications are also invited for the three-month Advanced Certificate, and two Diplomas (six- and nine-month); and for MPhil/PhD research in the areas of linguistics, media studies, stylistics, and educational methodology.

Further information from Dr Alan Durant
Programe in Literary Linguistics
Department of English Studies
University of Strathclyde, 26 Richmond Street
Glasgow G1 1XH

Postgraduate awards?

Read the editorial on pages 17–22

Abbreviations

See pages 31–33

Translation (French/English, German/English, Norwegian/English, Arabic/English)

UNIVERSITY OF SURREY

Degree Diploma/MA

Length of course 9 months full time (Diploma) 12 months full-time (MA)

option is subject to a minimum registration of students

Examination The Diploma is assessed by examination (5

Entrance requirements A first degree in the appropriate language of an approved university (or equivalent)

20 Languages and literature: general and comparative

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

20:1 **Bath,** *Modern languages,* MPhil/PhD
20:2 **Birmingham,** *Contemporary cultural studies,* MA/MLitt/PhD
20:3 **Birmingham,** *Byzantine studies and modern Greek,* MA/MLitt/PhD
20:4 **Bradford,** *Interdisciplinary human studies,* MPhil/PhD
20:5 **Bradford,** *Literature and the history of ideas,* MPhil/PhD
20:6 **Brighton Poly,** *Language studies,* MPhil/PhD (CNAA)
20:7 **Buckingham,** *Modern languages,* MPhil/DPhil
20:8 **Cambridge,** *Modern and medieval languages,* MLitt/PhD
20:9 **Cambridge,** *Oriental studies,* MLitt/PhD
20:10 **East Anglia,** *Comparative literature,* MPhil/PhD
20:11 **East Anglia,** *European literature,* MPhil/PhD
20:12 **Essex,** *Literature,* MPhil/PhD
20:13 **Huddersfield Poly,** *Languages and literature,* MPhil/PhD (CNAA)
20:14 **Kent,** *Comparative literary studies,* MA/PhD
20:15 **London (LSE),** *Language studies,* MPhil/PhD
20:16 **Manchester,** *Comparative literary studies,* MPhil/PhD
20:17 **Manchester Poly,** *Languages,* MPhil/PhD (CNAA)
20:18 **Napier C (Edinburgh),** *Humanities,* MPhil/PhD (CNAA)
20:19 **Newcastle Poly,** *Modern languages,* MPhil/PhD (CNAA)
20:20 **N Staffs Poly,** *Literature,* MPhil/PhD (CNAA)
20:21 **Oxford,** *Oriental studies,* MLitt/DPhil
20:22 **Poly of Central London,** *Languages,* MPhil/PhD
20:23 **Poly of North London,** *Language and literature,* MPhil/PhD (CNAA)
20:24 **Portsmouth Poly,** *Historical and literary studies,* MPhil/PhD (CNAA)
20:25 **Strathclyde,** *Modern languages,* MA/MSc/MLitt/PhD
20:26 **Sussex,** *Comparative literature,* MPhil/DPhil
20:27 **Teesside Poly,** *Languages and literatures,* MPhil/PhD (CNAA)
20:28 **Trent Poly,** *Literature,* MPhil/PhD (CNAA)
20:29 **Trent Poly,** *Modern languages,* MPhil/PhD (CNAA)
20:30 **Wales (Aberystwyth),** *Romance studies,* MA/PhD
20:31 **Wales (Swansea),** *Romance studies,* MA/PhD
20:32 **Warwick,** *Comparative literature,* MPhil/PhD
20:33 **Wolverhampton Poly,** *Languages and European studies,* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

20:34 **Birmingham,** *Cultural studies,* MA
20:35 **Bristol,** *Modern languages,* MA
20:36 **Buckingham,** *Modern languages,* MA/Diploma

20 37 **Cambridge,** *Oriental studies,* MPhil
20 38 **East Anglia,** *Comparative literature,* MA
20 39 **East Anglia,** *European languages and linguistics,* MA
20 40 **East Anglia,** *European literature,* MA
20 41 **Edinburgh,** *Comparative and general literature,* MSc
20 42 **Edinburgh,** *Medieval languages,* MSc
20 43 **Essex,** *Cross-cultural studies,* MA
20 44 **Essex,** *Sociology of literature,* MA
20 45 **Essex,** *Theory and practice of literary translation,* MA
20 46 **Leeds,** *Anglo-German literary relations,* MA
20 47 **Leeds,** *Bibliography, publishing and textual studies,* MA
20 48 **Leeds,** *Commonwealth literature,* MA
20 49 **Leeds,** *Medieval studies,* MA
20 50 **London (Birkbeck),** *Medieval studies,* MA
20 51 **London (Birkbeck),** *Renaissance studies,* MA
20 52 **London (Birkbeck),** *Romance languages and literatures,* MA
20 53 [illegible]
20 54 [illegible]
20 55 [illegible]
20 56 [illegible]
20 57 [illegible]
20 58 [illegible]
20 59 **London (Queen Mary),** *Romance languages and literatures,* MA
20 60 **London (SSEES),** *Romance languages and literatures,* MA
20 61 **London (Westfield),** *Romance languages and literatures,* MA
20 62 **Manchester,** *Comparative literary studies,* MA
20 63 **Manchester,** *European literature of the Middle Ages* MA
20 64 **Oxford,** *European literature,* MPhil/MSt
20 65 **St Andrews,** *Comparative literary studies,* MLitt/Diploma
20 66 [illegible]
20 67 [illegible]
20 68 [illegible]
20 69 [illegible]
20 70 [illegible]

book and periodical production and extensive practical work, *specialised topics* inc censorship law of copyright non printed publishing role of computer assessment of coursework exam dissertation Contact JM Fraser

20 71 **Sussex,** *Comparative literature,* MA
20 72 [illegible]
20 73 [illegible]
20 74 [illegible]
20 75 [illegible]
20 76 [illegible]
20 77 [illegible]

Certificates and diplomas

20 78 **Ealing CHE,** *Language in the multiracial community* Diploma (CNAA)
20 79 **Essex,** *Literature* Diploma
20 80 **King Alfred s C (Winchester),** *Language in education,* Diploma (CNAA)
20 81 **La Sainte Union CHE (Southampton),** *Language development and the teaching of reading,* Diploma (Southampton)
20 82 **Salford,** *Marketing and a foreign language* MSc
20 83 **Watford C,** *Publishing* Diploma

UNIVERSITY OF ESSEX

Department of Literature

The Department has 23 full-time members of staff with teaching and research interests in English and European literature from the Middle Ages to the present day, United States, Latin American and Russian literatures, and the theory and sociology of literature

MA courses are available in:
American Poetry, Cross-Cultural Studies, Drama, Latin American Literature, Modern Spanish Poetry, 19th and 20th Century English and US Literature, Sociology of Literature, Theory & Practice of Literary Translation, Women Writing, MA in Native American Studies (jointly with the Art Department) and Postgraduate Diploma in Literature.

MPhil and PhD degrees: The Department accepts candidates in any area of literary study for which it has qualified members of staff

Further information from: The Graduate Secretary, Department of Literature, University of Essex, Wivenhoe Park, Colchester, Essex CO4 3SQ, England

UNIVERSITY OF SOUTHAMPTON

MPhil/PhD

Modern languages, literature and linguistics

Supervision available in

FRENCH Major interest in modern studies, especially 20th-century French social and political structures, 20th-century literature and 18th-century studies, specific areas of staff interest include 17th-century literature and thought, 18th-century literature and thought, 19th-century novel and society, especially Naturalism, Proust, French linguistics, modern literary theories, contemporary fiction, especially Simenon and Perec

GERMAN German and Austrian drama, including Wedekind, Brecht and Horváth, the novels of Fontane, the literature of the Weimar Republic and the World Wars, Modern German fiction, especially Mann, Kafka, Musil and the novel of the FRG and GDR, Freud and Jung, Classical German literature, medieval epic, Marx, Lukacs and the Frankfurt School

There is also a 1 year MA by instruction in Austrian Cultural Studies from the 1880s to the 1930s, focusing on Kraus, Schnitzler, Freud and Hofmannsthal

LINGUISTICS Semantics, pragmatics, linguistic theory, philosophy of languages, phonetics phonology, history of French language, structure of contemporary French, French language-teaching methodology, German sociolinguistics, German for specific purposes, second language learning, English for specific purposes

SPANISH, PORTUGUESE AND LATIN AMERICAN STUDIES Golden Age and modern Spanish literature, 19th-century Portuguese literature, Latin American literature, including Brazilian, modern Catalan literature, modern Spanish history, specific areas of staff interest include Quevedo, 17th-century Spanish autobiography, Golden Age *a lo divino* poetry, Galdós, Lorca, Machado, Eça de Queirós, popular and erudite literature in Latin America, post-Revolutionary Cuban literature, the Spanish Socialist Party, the Spanish Civil War

Further Information: The Chairman, School of Modern Languages, University of Southampton, Highfield, Southampton SO9 5NH

UNIVERSITY OF WARWICK

MA in English Literature

The department of English and Comparative Literary Studies offers an MA programme taking one year of full-time study or two years of part-time It involves a combination of research and taught courses and permits students to develop and combine interests in various areas of English and American literature. Courses currently taught cover Shakespeare in performance, Renaissance

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students follow a course in scholarly method and the theory and practice of criticism In some circumstances suitably qualified students may elect to take the MA entirely by research A one-year postgraduate diploma is available as preparation for the MA programme, this is intended for overseas students, or for applicants moving into English studies *from some other academic area* After the MA course is completed, the department offers excellent opportunities for the pursuit of a higher degree

Further particulars from **Graduate Office, Faculty of Arts, University of Warwick, Coventry CV4 7AL**

Course advertisement *Humanities*

21 Languages and literature: Celtic (including Welsh)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

21:1 **Aberdeen,** *Celtic studies,* MLitt/PhD
21:2 **Belfast,** *Celtic language and literature,* MA/PhD
21:3 **Cambridge,** *Anglo-Saxon, Norse and Celtic,* MLitt/PhD
21:4 **Edinburgh,** *Celtic studies,* MLitt/PhD
21:5 **Glasgow,** *Celtic,* MLitt/PhD; supervision available on wide range of topics; p-g students encouraged to take range of taught options in Sc Gaelic, Irish and Welsh; staff research interests inc: hist of lit, lit criticism, textual work (Sc Gaelic and Irish), Ossianic studies, dialect study, linguistics, grammar with sp ref to mod and med periods, research related to archive of 'Historical Dictionary of Scottish Gaelic' (held in Dept of Celtic in slip and machine-readable forms). Contact DS Thomson
21:6 **Manchester,** *Celtic studies,* MPhil/PhD
21:7 **Oxford,** *Celtic,* MLitt/DPhil
21:8 **Ulster,** *European studies and modern languages,* MPhil/DPhil
21:9 **Wales (Aberystwyth),** *Breton and Cornish,* MA/PhD
21:10 **Wales (Aberystwyth),** *Celtic studies,* MA/PhD
21:11 **Wales (Aberystwyth),** *Irish,* MA/PhD
21:12 **Wales (Aberystwyth),** *Welsh language and literature,* MA/PhD
21:13 **Wales (Bangor),** *Celtic studies,* MA/PhD
21:14 **Wales (Cardiff),** *Welsh,* MA/PhD
21:15 **Wales (Lampeter),** *Celtic including Welsh,* MA/PhD
21:16 **Wales (Swansea),** *Welsh language and literature,* MA/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

21:17 **Edinburgh,** *Celtic studies,* MLitt
21:18 **Ulster,** *Irish language and literature,* MA
21:19 **Wales (Aberystwyth),** *Breton and Cornish,* MA
21:20 **Wales (Aberystwyth),** *Irish,* MA
21:21 **Wales (Aberystwyth),** *Welsh language and literature,* MA
21:22 **Wales (Bangor),** *Modern Welsh literature,* MA
21:23 **Wales (Bangor),** *Welsh,* MA
21:24 **Wales (Cardiff),** *Welsh linguistic studies,* MA/Diploma

Certificates and diplomas

21:25 **Oxford,** *Celtic studies,* Diploma
21:26 **West Glamorgan IHE (Swansea),** *Intensive Welsh,* Certificate (Swansea)

22 Languages and literature: East European and Russian

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

22 1 **Aberdeen,** *Russian studies,* MLitt/PhD
22 2 **Bath,** *Modern languages,* MPhil/PhD
22 3 **Birmingham,** *Russian language and literature,* MA/MLitt/PhD
22 4 **Bristol,** *Russian,* MLitt/PhD
22 5 **Cambridge,** *Modern and medieval languages,* MLitt/PhD
22 6 **Durham,** *Russian,* MA/MLitt/PhD
22 7 **East Anglia,** *Russian,* MPhil/PhD
22 8 **Edinburgh,** *Russian and Slavonic studies,* MLitt/PhD
22 9 **Exeter,** *Russian,* MPhil/PhD
22 10 **Glasgow,** *Slavonic studies,* MLitt/PhD
22 11 **Hull,** *Russian studies,* MPhil/PhD
22 12 **Keele,** *Russian studies,* MA/PhD
22 13 **Leeds,** *Russian studies,* MPhil/PhD
22 14 **Liverpool,** *Russian,* MPhil/PhD
22 15 [illegible]
22 16 [illegible]
22 17 [illegible]
22 18 **Nottingham,** *Slavonic studies,* MPhil/PhD
22 19 **Oxford,** *Russian and other Slavonic languages,* MLitt/DPhil
22 20 **Reading,** *Russian,* MPhil/PhD
22 21 **St Andrews,** *Russian,* MPhil/PhD
22 22 **Sheffield,** *Russian and Slavonic studies,* MPhil/PhD
22 23 **Strathclyde,** *Modern languages,* MA/MSc/MLitt/PhD
22 24 **Surrey,** *Linguistic and international studies,* MPhil/PhD
22 25 **Sussex,** *Russian studies,* MPhil/DPhil
22 26 **Wales (Bangor),** *Russian,* MA/PhD
22 27 **Wales (Swansea),** *Russian,* MA/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

22 28 **Birmingham,** *Russian language and literature,* MA
22 29 **Bristol,** *Modern languages,* MA
22 30 **East Anglia,** *Russian,* MA
22 31 **Exeter,** *Russian,* MA
22 32 **Glasgow,** *Slavonic languages,* MPhil
22 33 **Hull,** *Russian and general phonetics,* MA
22 34 **Liverpool,** *Russian,* MA

22:35 London (Birkbeck), *Romance languages and literatures,* MA
22:36 London (SSEES), *Czech and Slovak,* MA
22:37 London (SSEES), *Romance languages and literatures,* MA
22:38 London (SSEES), *Russian language and literature,* MA
22:39 St Andrews, *Russian,* MLitt
22:40 Sheffield, *Russian studies,* MA
22:41 Sheffield, *Slavonic studies,* MA

Certificates and diplomas

22:42 Glasgow, *Russian language for social scientists,* Diploma
22:43 Oxford, *Slavonic studies,* Diploma
22:44 Strathclyde, *Russian language,* Diploma
22:45 Surrey, *Russian,* Diploma

23 Languages and literature: French

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

23 1 **Aberdeen,** *French studies,* MLitt/PhD
23 2 **Aston,** *Modern languages* MPhil/PhD
23 3 **Bath,** *Modern languages,* MPhil/PhD
23 4 **Belfast,** *French and romance philology,* MA/PhD
23 5 **Birmingham,** *French language and literature,* MA/MLitt/PhD
23 6 **Bristol,** *French* MA/MLitt/PhD
23 7 **Bristol Poly,** *French,* MPhil/PhD (CNAA)
23 8 **Brunel,** *Languages and linguistics,* MPhil/PhD
23 9 **Cambridge,** *Modern and medieval languages,* MLitt/PhD
23 10 **Dundee,** *French* MPhil/PhD
23 11 **Durham,** *French* MA/MLitt/PhD
23 12 **East Anglia,** *French,* MPhil/PhD
23 13 **Edinburgh,** *French language and literature,* MLitt/PhD
23 14 **Exeter,** *French* MPhil/PhD
23 15 **Glasgow,** *French,* MLitt/PhD
23 16 **Hull,** *French,* MPhil/PhD
23 17 **Keele,** *French,* MA/PhD
23 18 **Kent,** *French,* MA/PhD
23 19 **Kingston Poly,** *French,* MPhil/PhD (CNAA)
23 20 **Lancaster,** *French studies,* MPhil/PhD *See page 161*
23 21 [illegible]
23 22 [illegible]
23 23 [illegible]
23 24 **London (Birkbeck),** *French* MPhil/PhD
23 25 [illegible]
23 26 [illegible]
23 27 [illegible]
23 28 [illegible]
23 29 **London (UC),** *French language and literature,* MPhil/PhD
23 30 **London (Westfield),** *French,* MPhil/PhD

23:31 **Manchester,** *French studies*, MPhil/PhD
23:32 **Newcastle,** *French*, MLitt/PhD
23:33 **Nottingham,** *French studies*, MPhil/PhD
23:34 **Oxford,** *French*, MLitt/DPhil
23:35 **Portsmouth Poly,** *Languages and area studies*, MPhil/PhD
23:36 **Reading,** *French*, MPhil/PhD
23:37 **St Andrews,** *French*, MPhil/PhD
23:38 **Sheffield,** *French*, MPhil/PhD
23:39 **Southampton,** *French*, MPhil/PhD
23:40 **Stirling,** *French*, MLitt/PhD
23:41 **Strathclyde,** *Modern languages*, MA/MSc/MLitt/PhD
23:42 **Surrey,** *Linguistic and international studies*, MPhil/PhD
23:43 **Sussex,** *French studies*, MPhil/DPhil
23:44 **Ulster,** *European studies and modern languages*, MPhil/DPhil
23:45 **Wales (Aberystwyth),** *Romance studies*, MA/PhD
23:46 **Wales (Bangor),** *French and romance studies*, MA/PhD
23:47 **Wales (Cardiff),** *French*, MA/PhD
23:48 **Wales (Lampeter),** *French*, MA/PhD
23:49 **Wales (Swansea),** *Romance studies*, MA/PhD
23:50 **Warwick,** *French studies*, MA/MPhil/PhD
23:51 **Wolverhampton Poly,** *Languages and European studies*, MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

23:52 **Belfast,** *French studies*, MA
23:53 **Bristol,** *Contemporary French language*, MA
23:54 **Bristol,** *French drama and theatre history*, MA
23:55 **Bristol,** *Modern languages*, MA
23:56 **East Anglia,** *European language and linguistics*, MA
23:57 **East Anglia,** *French*, MA
23:58 **East Anglia,** *French and the teaching of French*, MA
23:59 **Edinburgh,** *Medieval French language and literature*, MSc
23:60 **Glasgow,** *Contemporary French drama*, MPhil
23:61 **Glasgow,** *French fin-de-siècle literature and art*, MPhil
23:62 **Hull,** *French language and education*, MA
23:63 **Hull,** *Medieval French studies*, MA
23:64 **Hull,** *Modern French literature: poetry, novel and drama*, MA
23:65 **Hull,** *Sixteenth- and seventeenth-century French studies*, MA
23:66 **Lancaster,** *French theatre studies*, MA
23:67 **Lancaster,** *Medieval and renaissance French studies*, MA
23:68 **Lancaster,** *Modern French studies*, MA
23:69 **Liverpool,** *French and history*, MA
23:70 **Liverpool,** *French language and literature*, MA, 1 yr f-t; 2 yrs p-t; *course content:* trans, sp author, sp topic in either French lang or lit, a period of lit or lang; exam, extended essay may replace 1 paper. Contact Dr GS Burgess
23:71 **Liverpool,** *French renaissance literature*, MA
23:72 **Liverpool,** *Medieval studies*, MA
23:73 **London (Birkbeck),** *Romance languages and literatures*, MA
23:74 **London (KQC),** *Romance languages and literatures*, MA
23:75 **London (Queen Mary),** *Romance languages and literatures*, MA
23:76 **London (RHBC),** *French*, MA
23:77 **London (Westfield),** *Romance languages and literatures*, MA

23 78 Loughborough, *Modern French studies,* MA
23 79 Manchester, *Modern French studies,* MA
23 80 Reading, *French studies,* MA
23 81 Salford, *Advanced language studies,* MA/Diploma
23 82 Sheffield, *French,* MA
23 83 Sheffield, *French language and linguistics,* MA
23 84 Stirling, *Modern French literature,* MPhil
23 85 Surrey, *Translation,* MA/Diploma
23 86 Sussex, *French studies,* MA
23 87 Ulster, *Modern French literature and civilisation,* MA/Diploma
23 88 Wales (Aberystwyth), *Romance studies,* MA
23 89
23 90
23 91
23 92

Certificates and diplomas

23 93 Christ Church C (Canterbury), *Teaching of modern languages (French),* Diploma (Kent)
23 94 Liverpool IHE, *French,* Diploma

24 Languages and literature: German and Dutch

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

24:1 **Aberdeen,** *German language and literature,* MLitt/PhD
24:2 **Aston,** *Modern languages,* MPhil/PhD
24:3 **Bath,** *Modern languages,* MPhil/PhD
24:4 **Belfast,** *German,* MA/PhD
24:5 **Birmingham,** *German studies,* MA/MLitt/PhD
24:6 **Bristol,** *German,* MA/MLitt/PhD
24:7 **Bristol Poly,** *German,* MPhil/PhD (CNAA)
24:8 **Brunel,** *Languages and linguistics,* MPhil/PhD
24:9 **Cambridge,** *Modern and medieval languages,* MLitt/PhD
24:10 **Dundee,** *German,* MPhil/PhD
24:11 **Durham,** *German,* MA/MLitt/PhD
24:12 **East Anglia,** *German,* MPhil/PhD
24:13 **Edinburgh,** *German,* MLitt/PhD
24:14 **Exeter,** *German,* MPhil/PhD
24:15 **Glasgow,** *German,* MLitt/PhD
24:16 **Hull,** *German,* MPhil/PhD; supervision available; research interests inc mod Austrian and German lit, mod German drama, mod novelle, social drama, 18th- and 19th-cent lit, comparative lit esp lit of 1st World War, med romance. **Contact** Professor EO McInnes
24:17 **Hull,** *Modern Dutch studies,* MPhil/PhD
24:18 **Keele,** *German,* MA/PhD
24:19 **Kent,** *German,* MA/PhD
24:20 **Kingston Poly,** *German,* MPhil/PhD (CNAA)
24:21 **Lancaster,** *German studies,* MPhil/PhD
24:22 **Leeds,** *German language and literature,* MPhil/PhD
24:23 **Leicester,** *German,* MA/MPhil/PhD
24:24 **Liverpool,** *Dutch,* MPhil/PhD
24:25 **Liverpool,** *German,* MPhil/PhD
24:26 **London (Birkbeck),** *German,* MPhil/PhD
24:27 **London (Goldsmiths'),** *German,* MPhil/PhD
24:28 **London (KQC),** *German,* MPhil/PhD
24:29 **London (Queen Mary),** *German,* MPhil/PhD
24:30 **London (RHBC),** *German,* MPhil/PhD
:31 **London (UC),** *Dutch,* MPhil/PhD
:32 **London (UC),** *German,* MPhil/PhD
:33 **London (Westfield),** *German,* MPhil/PhD
24:34 **Manchester,** *German language and literature,* MPhil/PhD
24:35 **Newcastle,** *German,* MLitt/PhD
24:36 **Nottingham,** *German,* MPhil/PhD
24:37 **Oxford,** *German,* MLitt/DPhil
24:38 **Reading,** *German,* MPhil/PhD
24:39 **St Andrews,** *German,* MLitt/MPhil/PhD
24:40 **Sheffield,** *Germanic studies,* MPhil/PhD
24:41 **Southampton,** *German,* MPhil/PhD

24 42 Stirling, *German*, MLitt/PhD
24 43 Strathclyde, *Modern languages*, MA/MSc/MLitt/PhD
24 44 Surrey, *Linguistic and international studies*, MPhil/PhD
24 45 Sussex, *German studies*, MPhil/DPhil
24 46 Ulster, *European studies and modern languages*, MPhil/DPhil
24 47 Wales (Aberystwyth), *German*, MA/PhD
24 48 Wales (Bangor), *German*, MA/PhD
24 49 Wales (Cardiff), *German*, MA/PhD
24 50 Wales (Lampeter), *German*, MA/PhD
24 51 Wales (Swansea), *German*, MA/PhD
24 52 Warwick, *German studies*, MA/MPhil/PhD
24 53 Wolverhampton Poly, *Languages and European studies*, MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

24 54 Aberdeen, *Modern German studies*, MLitt 1 yr f t 2 yrs p t *course in following subj areas* social hist of E and W Germany since 1945 lit of FRG lit of GDR directed reading and study of approved topic drawn from 1 or more of subj areas exam based on course of instruction brief dissertation based on directed reading and study Contact Head of Department Department of German
24 55 Bristol, *Modern languages*, MA
24 56 Bristol, *Twentieth century German drama*, MA
24 57 Ealing CHE, *Contemporary German studies*, MA/Diploma (CNAA)
24 58 East Anglia, *European language and linguistics*, MA
24 59 East Anglia, *German*, MA
24 60 Exeter, *German*, MA
24 61 Lancaster, *German studies (intellectuals in East and West Germany)*, MA
24 62 Leeds, *Anglo-German literary relations*, MA
24 63 Liverpool, *German*, MA
24 64 Liverpool, *Medieval studies*, MA
24 65 London (Birkbeck), *German*, MA
24 66 London (Goldsmiths'), *German*, MA
24 67 London (KQC), *German*, MA
24 68 London (Queen Mary), *German*, MA
24 69 London (RHBC), *German*, MA
24 70 London (UC), *Dutch*, MA
24 71 London (UC), *German*, MA
24 72 [illegible]
24 73 [illegible]
24 74 [illegible]
24 75 Sheffield, *German language studies*, MA
24 76 Southampton, *Contemporary German cultural studies*, MA
24 77 Strathclyde, *Contemporary German studies*, MLitt
24 78 Surrey, *Translation*, MA/Diploma
24 79 Sussex, *German studies*, MA
24 80 Wales (Aberystwyth), *German*, MA
24 81 Warwick, *German studies*, MA

25 Languages and literature: Hispanic studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

25:1 **Aberdeen,** *Spanish studies*, MLitt/PhD
25:2 **Bath,** *Modern languages*, MPhil/PhD
25:3 **Belfast,** *Spanish*, MA/PhD
25:4 **Birmingham,** *Hispanic studies*, MA/MLitt/PhD
25:5 **Bristol,** *Hispanic studies*, MLitt/PhD
25:6 **Bristol Poly,** *Spanish*, MPhil/PhD (CNAA)
25:7 **Cambridge,** *Modern and medieval languages*, MLitt/PhD
25:8 **Durham,** *Spanish*, MA/MLitt/PhD
25:9 **Edinburgh,** *Hispanic studies*, MLitt/PhD
25:10 **Exeter,** *Spanish*, MPhil/PhD
25:11 **Glasgow,** *Hispanic studies*, MLitt/PhD
25:12 **Hull,** *Spanish*, MPhil/PhD
25:13 **Kingston Poly,** *Spanish*, MPhil/PhD (CNAA)
25:14 **Leeds,** *Spanish and Portuguese languages and literatures*, MPhil/PhD *See page 166*
25:15 **Liverpool,** *Hispanic studies*, MPhil/PhD
25:16 **London (Birkbeck),** *Spanish*, MPhil/PhD
25:17 **London (KQC),** *Portuguese and Brazilian studies*, MPhil/PhD
25:18 **London (KQC),** *Spanish and Spanish-American studies*, MPhil/PhD; supervision available in following and other fields: med, Golden Age and mod Castilian lit; Spanish-American lit and Spanish music; Spanish lang; Iberian Islamic-Christian and *aljamiado* cultures. Contact Professor JW Sage
25:19 **London (Queen Mary),** *Spanish*, MPhil/PhD
25:20 **London (UC),** *Spanish and Latin American studies*, MPhil/PhD
25:21 **London (Westfield),** *Spanish*, MPhil/PhD
25:22 **Manchester,** *Spanish and Portuguese studies*, MPhil/PhD
25:23 **Newcastle,** *Spanish, Portuguese and Latin American studies*, MLitt/PhD
25:24 **Nottingham,** *Hispanic studies*, MPhil/PhD; supervision available for research; specific staff interests: romanticism, generation of 1898 and Modernismo; mod Spanish poetry; fine art and mod lit; comparative lit (principally French and Spanish in 19th and 20th cents esp in *fin de siecle;* Portuguese; comparative lit; narrative theory, structuralism and lit theory; mod Spanish and Latin American lit (inc Brazil), esp mod Spanish novel and Latin American novel; late med Spanish lit; Golden Age drama. Contact Professor RA Cardwell
25:25 **Oxford,** *Spanish and Portuguese*, MLitt/DPhil
25:26 **St Andrews,** *Spanish*, MPhil/PhD
25:27 **Sheffield,** *Hispanic studies*, MPhil/PhD
25:28 **Southampton,** *Spanish*, MPhil/PhD
25:29 **Stirling,** *Spanish*, MLitt/PhD
25:30 **Strathclyde,** *Modern languages*, MA/MSc/MLitt/PhD
25:31 **Ulster,** *European studies and modern languages*, MPhil/DPhil
25:32 **Wales (Aberystwyth),** *Romance studies*, MA/PhD
25:33 **Wales (Cardiff),** *Hispanic studies*, MA/PhD
25:34 **Wales (Swansea),** *Romance studies*, MA/PhD
25:35 **Wolverhampton Poly,** *Languages and European studies*, MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

25 36 **Bristol,** *Modern languages,* MA
25 37 **Cambridge,** *Latin American studies,* MPhil
25 38 **Essex,** *Latin American literature,* MA
25 39 **Essex,** *Modern Spanish poetry,* MA
25 40 **Exeter,** *Spanish,* MA
25 41 **Glasgow,** *Hispanic studies and English,* MPhil
25 42 **Leeds,** *Spanish,* MA *See page 166*
25 43 **Liverpool,** *Languages and linguistics of Spain,* MA
25 44 **Liverpool,** *Latin American studies,* MA
25 45 **Liverpool,** *Medieval studies,* MA
25 46 **Liverpool,** *Spanish and Portuguese literature,* MA
25 47 **London (Birkbeck),** *Hispanic studies* MA
25 48 **London (Birkbeck),** *Romance languages and literatures* MA
25 49 **London (KQC),** *Hispanic studies,* MA 1 yr f t 2 yrs p t topics offered med Golden Age and mod Castilian lit Spanish American lit Spanish lang etc **Contact** Professor JW Sage
25 50 [illegible]
25 51 [illegible]
25 52 [illegible]
25 53 [illegible]
25 54 [illegible]
25 55 **London (Westfield),** *Romance languages and literatures,* MA
25 56 **Newcastle,** *Hispanic drama and film,* MA
25 57 **St Andrews,** *Spanish,* MLitt
25 58 **Salford,** *Advanced language studies,* MA/Diploma
25 59 **Wales (Aberystwyth),** *Romance studies* MA
25 60 **Wales (Swansea),** *Romance studies,* MA

See chapter headings on pages 42 and 43 for cognate subjects

26 Languages and literature: Italian

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

26 1 **Aberdeen,** *Italian studies,* MLitt/PhD
26 2 **Bath,** *Modern languages,* MPhil/PhD
26 3 **Belfast,** *Italian,* MA/PhD
26 4 **Birmingham,** *Italian language and literature,* MA/MLitt/PhD
26 5 **Bristol,** *Italian,* MLitt/PhD
26 6 **Cambridge,** *Modern and medieval languages,* MLitt/PhD
26 7 **Edinburgh,** *Italian,* MLitt/PhD
26 8 **Exeter,** *Italian,* MPhil/PhD
26 9 **Glasgow,** *Italian,* MLitt/PhD
26 10 **Hull,** *Italian,* MPhil/PhD
26 11 **Kent,** *Italian,* MA/PhD
26 12 **Lancaster,** *Italian studies,* MPhil/PhD
26 13 **Leeds,** *Italian language and literature,* MPhil/PhD
26 14 **Leicester,** *Italian,* MA/MPhil/PhD
26 15 **Liverpool,** *Italian,* MPhil/PhD
26 16 **London (Birkbeck),** *Italian,* MPhil/PhD
26 17 **London (RHBC),** *Italian,* MPhil/PhD
26 18 **London (UC),** *Italian,* MPhil/PhD
26 19 **Manchester,** *Italian studies,* MPhil/PhD
26 20 **Oxford,** *Italian,* MLitt/DPhil
26 21 **Reading,** *Italian studies,* MPhil/PhD
26 22 **Sheffield,** *Hispanic studies,* MPhil/PhD
26 23 **Southampton,** *Italian studies,* MPhil/PhD
26 24 [illegible]
26 25 [illegible]
26 26 [illegible]
26 27 **Wales (Swansea),** *Romance studies,* MA/PhD
26 28 **Warwick,** *Italian,* MA/MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

26 29 **Bristol,** *Modern languages,* MA
26 30 **Hull,** *Italian Renaissance studies,* MA
26 31 **Hull,** *Modern Italian studies,* MA
26 32 **Liverpool,** *Italian renaissance,* MA
26 33 **Liverpool,** *Medieval studies,* MA
26 34 **London (Birkbeck),** *Romance languages and literatures* MA
26 35 **London (Westfield),** *Romance language and literatures* MA
26 36 **Reading,** *Italian studies,* MA

26:37 **Wales (Aberystwyth),** *Romance studies*, MA
26:38 **Wales (Cardiff),** *Italian*, MA
26:39 **Wales (Swansea),** *Romance studies*, MA
26:40 **Warwick,** *Teaching Italian as a foreign language*, MA

27 Languages and literature: Scandinavian studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

27 1 Aberdeen, *Swedish* MLitt/PhD
27 2 Cambridge *Anglo Saxon Norse and Celtic* MLitt/PhD
27 3 Cambridge, *Modern and medieval languages* MLitt/PhD
27 4 East Anglia, *Scandinavian* MPhil PhD
27 5 Hull, *Scandinavian studies* MPhil/PhD
27 6 London (KQC) *English* MPhil/PhD
27 7 London (UC), *Scandinavian studies* MPhil/PhD
27 8 Newcastle, *Scandinavian studies* MLitt/PhD
27 9 Sheffield *Germanic studies* MA/PhD
27 10 Surrey, *Linguistic and international studies* MPhil/PhD
27 11 Wales (Lampeter), *Swedish* MA/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

27 12 East Anglia, *Scandinavian* MA
27 13 [illegible]
27 14 [illegible]
27 15 [illegible]
27 16 [illegible]
27 17 [illegible]
27 18 [illegible]
27 19 Surrey, *Translation* MA/Diploma
27 20 Wales (Lampeter), *Swedish* MA

28 Languages and literature: Semitic studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section

28:1 **Cambridge,** *Oriental studies,* MLitt/PhD
28:2 **Durham,** *Arabic studies,* MA/MLitt/PhD
28:3 **Durham,** *Semitic languages,* MA
28:4 **Edinburgh,** *Arabic and Islamic studies,* MLitt/PhD
28:5 **Exeter,** *Arabic and Islamic studies,* MPhil/PhD
28:6 **Glasgow,** *Arabic literature,* MLitt/PhD
28:7 **Leeds,** *Arabic studies,* MPhil/PhD
28:8 **Leeds,** *Hebrew language and literature,* MPhil/PhD
28:9 **Liverpool,** *Oriental studies,* MPhil/PhD
28:10 **London (SOAS),** *Near and Middle East studies,* MPhil/PhD
28:11 **London (UC),** *Hebrew and Jewish studies,* MPhil/PhD
28:12 **Oxford,** *Semitic languages,* MLitt/DPhil
28:13 **St Andrews,** *Arabic studies,* MPhil/PhD
28:14 **Wales (Bangor),** *Biblical studies,* MA/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

28:15 **Aberdeen,** *Biblical studies,* MTh
28:16 **Durham,** *Semitic studies,* MA
28:17 **Leeds,** *Arabic,* MA
28:18 **Leeds,** *Hebrew,* MA
28:19 **London (Jews'),** *Hebrew and Jewish studies,* MA
28:20 **London (Jews'),** *Jewish studies,* MPhil
28:21 **St Andrews,** *Arabic studies,* MLitt/Diploma
28:22 **Salford,** *Applied linguistics with special reference to the Arab world,* MA, 1 yr f-t (deg or equiv req, also good command of English and Arabic), designed to offer to those already active in lang teaching or who intend to enter field possibility of deepening understanding of applied linguistics and appreciation of problems of Arabic-speaking learner, *course content* gen topics in applied linguistic theory and pra [illegible] nd teaching methodology), opportunity to study such specialist topics as [illegible] in Arab world, contrastive Arabic-English text linguistics, contrastive pragmatics, sociolinguistics of Arab-speaking societies in gen, assessment by extended essays and dissertation **Contact** Administrative Officer, Dept of Modern Languages
28:23 **Salford,** *Interpretation,* MA. 1 yr f-t (deg or equiv req, also sp qualifying test), designed to meet increasing demand for professional Arabic-English and English-Arabic interpreters, suitable for those working as interpreters at international and regional organisations, and at ministries of foreign affairs and information as well as freelance professional interpreters, *course inc* at-sight trans, intensive lang studies, cultural context of disciplines embracing law, economics, international relations, arts and sciences, regional dialects and terminology, monitoring, simultaneous and consecutive interpretation **Contact** Administrative Officer, Dept of Modern Languages
28:24 **Salford,** *Translation,* MA, 1 yr f-t (recognised deg req, plus high-level competence in English and Arabic), designed to develop skills in English-Arabic and Arabic-English trans needed in inter-

Certificates and diplomas

28 25 **Durham,** *Arabic,* Diploma
28 26 **Poly of Central London,** *Arabic/English translation,* Diploma
28 27 **St Andrews,** *Modern Arabic,* Diploma

Which course?

See chapter headings on pages 42 and 43 for cognate subjects

Humanities

29 Languages and literature: other

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

29:1 **Bath,** *Modern languages*, MPhil/PhD
29:2 **Cambridge,** *Chinese studies*, MLitt/PhD
29:3 **Cambridge,** *Indian studies*, MLitt/PhD
29:4 **Cambridge,** *Japanese studies*, MLitt/PhD
29:5 **Durham,** *Chinese studies*, MA/MLitt/PhD
29:6 **Durham,** *Persian studies*, MA/MLitt/PhD
29:7 **Durham,** *Turkish studies*, MA/MLitt/PhD
29:8 **Edinburgh,** *Chinese*, MLitt/PhD
29:9 **Edinburgh,** *Persian studies*, MLitt/PhD
29:10 **Edinburgh,** *Sanskrit*, PhD
29:11 **Leeds,** *Chinese studies*, MPhil/PhD
29:12 **Leeds,** *Japanese*, MPhil/PhD
29:13 **London (SOAS),** *African studies*, MPhil/PhD
29:14 **London (SOAS),** *Classical Indian languages and literatures*, MPhil/PhD
29:15 **London (SOAS),** *Far East studies*, MPhil/PhD
29:16 **London (SOAS),** *Modern Indian languages and literatures*, MPhil/PhD
29:17 **Oxford,** *Chinese*, MLitt/DPhil
29:18 **Oxford,** *Indian and Indo-Iranian*, MLitt/DPhil
29:19 **Oxford,** *Japanese*, MLitt/DPhil
29:20 **Oxford,** *Modern and medieval Greek*, MLitt/DPhil
29:21 **Sheffield,** *Japanese studies*, MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

29:22 **Bath,** *Translation and linguistics (Arabic/English)*, MA
29:23 **Cambridge,** *Oriental studies*, MPhil
29:24 **Cambridge,** *Oriental studies*, MPhil
29:25 **Essex,** *Native American studies*, MA
29:26 **Leeds,** *Mongolian studies*, MA
29:27 **London (SOAS),** *Modern Indian languages and literatures*, MA
29:28 **London (SOAS),** *African language*, MA
29:29 **London (SOAS),** *Area studies: Africa*, MA
29:30 **London (SOAS),** *Area studies: South Asia*, MA
29:31 **London (SOAS),** *Classical Indian studies*, MA
29:32 **London (SOAS),** *Old and Middle Iranian*, MPhil
29:33 **London (SOAS),** *Sanskrit*, MPhil
29:34 **Oxford,** *Chinese studies*, MSt
29:35 **St Andrews,** *Amerindian studies*, MPhil

29 36 **Sheffield**, *Japanese studies*, MA
29 37 **Sheffield**, *Modern African literature*, MA

Certificates and diplomas

29 38 **Durham**, *Chinese*, Diploma
29 39 **Ealing CHE**, *Modern Chinese*, Diploma (CNAA)
29 40 **St Andrews**, *Quechua studies*, Diploma
29 41 **Sheffield**, *Japanese language*, Certificate

30 Law

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

30:1 **Aberdeen,** *Law*, LLM/PhD
30:2 **Belfast,** *Law*, LLM/PhD
30:3 **Birmingham,** *Jurisprudence*, MJur/PhD
30:4 **Birmingham,** *Law*, LLM/PhD
30:5 **Bristol,** *Law*, LLM/PhD; supervision available, research interests inc: contract and tort (esp professional negligence, damages, relationship of tort and contract liability); commercial law inc company law; law of property (trusts, wills and succession, conveyances esp conditions of sale, covenants as to title, powers and duties of Chief Land Registrar, social control of land esp planning agreements, Land Compensation Act 1973, harassment and illegal eviction); revenue law (income tax, capital taxes); public law (judicial review of admin action, Ombudsmen, Royal Prerogative, law of arrest, search and seizure, public law remedies, human rights in Europe); international law of the sea; family law (esp law relating to children); press law (with sp ref to contempt of court), conflict of laws (esp Anglo-American comparative aspects, EEC aspects, torts and jurisdiction) Contact David Feldman
30:6 **Brunel,** *Law*, MPhil/PhD; supervision available for research, interests inc: public law, welfare law, property law, legal services, comparative criminal law and procedure, police organisation, training and methods; sentencing theory and practice, Juvenile Courts; public law, legal theory, law and social change, sociol of law, comparative law, law of ethnic minorities (sp ref to Hindu law); family and child law; magistrates' courts; consumer protection and fair trading, supply of goods and services, trade descriptions, small claims, criminal law, evidence and criminal procedure, criminal law, evidence and procedure, commercial and industrial organisation; labour law, legal education, critical legal studies; policing and EC's law Contact Dr R Dhavan
30:7 **Buckingham,** *Law*, LLM/MPhil/DPhil
30:8 **Cambridge,** *Criminology*, MLitt/PhD
30:9 **Cambridge,** *Law*, MLitt/PhD
30:10 **City of London Poly,** *Business law*, MPhil/PhD (CNAA)
30:11 **Dorset IHE (Poole),** *Finance and law*, MPhil/PhD (CNAA)
30:12 **Dundee,** *Jurisprudence*, LLM/PhD
30:13 **Dundee,** *Petroleum law*, LLM/PhD
30:14 **Dundee,** *Private law*, LLM/PhD
30:15 **Dundee,** *Public law*, LLM/PhD
30:16 **Durham,** *Law*, BCL/MA/PhD
30:17 **East Anglia,** *Law*, LLM/MPhil/PhD; supervision available for research, staff interests inc: family law, property law, succession, English and Scots property law, taxation; public law, environmental law; industrial law, tort, criminal law, admin law, legal system, commercial law, consumer law; private international law, comparative law; evidence and criminal procedure; criminal justice systems; legal hist, social welfare law and practice; ecclesiastical law. Contact DR Thomas
30:18 **Edinburgh,** *Civil law*, MPhil/PhD
30:19 **Edinburgh,** *Law*, MPhil/PhD
30:20 **Edinburgh,** *Public international law*, MPhil/PhD
30:21 **Essex,** *Law*, MPhil/PhD
30:22 **Exeter,** *Law*, MPhil/PhD
30:23 **Exeter,** *Socio-legal studies*, MPhil/PhD
30:24 **Glasgow,** *Law*, LLM/PhD
30:25 **Huddersfield Poly,** *Law*, MPhil/PhD (CNAA)

30 26 **Hull**, *Law*, LLM/MPhil/PhD
30 27 **Keele**, *Law*, LLM/MA/PhD
30 28 **Kent**, *Law*, MPhil/PhD
30 29 **Lancashire Poly**, *Law*, MPhil/PhD (CNAA)
30 30 **Lancaster**, *Law*, LLM/PhD
30 31 **Leeds**, *Law*, MA/LLM/PhD
30 32 **Leicester**, *Law*, MPhil/PhD
30 33 [illegible]
30 34 [illegible]
30 35 [illegible]
30 36 [illegible]
30 37 [illegible]
30 38 [illegible]
30 39 [illegible]
30 40 [illegible]
30 41 [illegible]
30 42 [illegible]
30 43 [illegible]
30 44 **Newcastle**, *Law*, LLM/PhD
30 45 [illegible]
30 46 [illegible]
30 47 [illegible]
30 48 **Nottingham**, *Law*, MPhil/PhD
30 49 **Oxford**, *Law*, MLitt/DPhil
30 50 [illegible]
30.51 [illegible]
30 52 [illegible]
30 53 **Sheffield**, *Law*, LLM/MPhil/PhD
30 54 **Southampton**, *Law*, MPhil/PhD *See page 179*
30 55 **South Bank Poly**, *Law*, MPhil/PhD (CNAA)
30 56 **Stirling**, *Accountancy and business law*, MSc/PhD
30 57 **Strathclyde**, *Law*, LLM/PhD
30 58 **Sussex**, *Law*, MPhil/DPhil
30 59 **Trent Poly**, *Legal studies*, MPhil/PhD (CNAA)
30 60 [illegible]
30 61 [illegible]
30 62 [illegible]
30 63 [illegible]
30 64 [illegible]
30 65 [illegible]

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

30:66 **Belfast,** *Law*, LLM
30:67 **Birmingham,** *Socio-legal studies*, MSocSc
30:68 **Bristol,** *Law*, LLM, 1 yr f-t: 2 yrs p-t; specialisation in commercial law possible; *course content:* inc 4 of: applied contract law, law of banking and insurance, collective labour relations and law, commercial and consumer law, company law, international contracts, international sales and carriage of goods by sea, monopolies and restrictive trade practices, admin law, law of civil liberties, conflict of laws, conveyancing, criminology, law of damages, law of European communities, evidence, family law, freedom of testation, international law of the sea, legal hist, phil of law, law relating to restitution, revenue law, labour law, Roman law (inc a title of digest), social control of land, succession; or 3 of above topics and dissertation on an approved subj. Contact David Feldman
30:69 **Brunel,** *Sociology and law*, MA/Diploma
30:70 **Cambridge,** *Criminology*, MPhil
30:71 **Cambridge,** *Law*, LLM
30:72 **City,** *Law*, MA/Diploma
30:73 **City,** *Law and practice*, MA/Diploma
30:74 **City of London Poly,** *Business law*, MA (CNAA)
30:75 **Dundee,** *Resources law*,MSc
30:76 **Edinburgh,** *Legal studies*, LLM/MSc
30:77 **Essex,** *Law*, LLM
30:78 **Exeter,** *European legal studies*, LLM
30:79 **Exeter,** *International business legal studies*, LLM
30:80 **Glasgow,** *Law*, LLM
30:81 **Hull,** *Criminology*, MA
30:82 **Hull,** *International law*, LLM/Diploma *See page 178*
30:83 **Hull,** *International law and politics*, MA
30:84 **Keele,** *Criminology*, MA
30:85 **Kent,** *Law*, LLM/Diploma
30:86 **Leicester,** *Welfare law*, LLM, 1 yr f-t: 2c yrs p-t; aims to provide qualified or qualifying practising lawyers or those teaching law to social work students with working knowledge and expertise in handling of legal problems of less affluent and less articulate sections of community. Contact Registrar (Higher Degrees)
30:87 **London (KQC),** *Law*, LLM
30:88 **London (LSE),** *Law*, LLM
30:89 **London (LSE),** *Sea-use law, economics and policy-making*, MSc
30:90 **London (Queen Mary),** *Law*, LLM
30:91 **London (SOAS),** *Law*, LLM
30:92 **London (UC),** *Law*, LLM
30:93 **Manchester,** *Jurisprudence*, MJur
30:94 **Manchester,** *Philosophy of law*, MJur
30:95 **Newcastle,** *Law*, LLM/Diploma
30:96 **Oxford,** *Law*, BCL
:97 **Reading,** *Criminal justice*, MA
:98 **Sheffield,** *Socio-legal studies*, MA
30:99 **Southampton,** *Law*, LLM *See page 179*
30:100 **Strathclyde,** *Business legal systems*, LLM
30:101 **Wales (Cardiff),** *Criminology*, MScEcon
30:102 **Wales (UWIST),** *Law*, LLM, MSc
30:103 **Warwick,** *Law in development*, LLM, 1 yr f-t; for lawyers working in, studying, or wishing to work in local govt in 3rd World; *course content:* law and development in theory and practice; urban legal admin; public enterprise law; agriculture, food policy and the law; constitutional law and theory in

the 3rd world dissertation Contact Postgraduate Secretary School of Law

30 104 **Warwick**, *Law in society*, LLM

Certificates and diplomas

30 105 **Belfast**, *Laws*, Diploma
30 106 **Birmingham**, *Socio-legal studies*, Diploma
30 107 **Bristol**, *English legal studies*, Diploma 1 yr f t, designed for overseas law grads from non-common law jurisdictions who wish to acquaint themselves with main principles of English common law and equity *subjs of study* intro to English legal method and insts principles of tort and contract intro to equity and property, and *either* law of business assoc *or* family law *or* another approved topic Contact David Feldman
30 108 **Cambridge**, *International law*, Diploma
30 109 **Cambridge**, *Legal studies*, Diploma
30 110 **Dundee**, *Legal practice*, Diploma
30 111 **Dundee**, *Mineral law*, Diploma
30 112 **Dundee**, *Petroleum law*, Diploma
30 113 **Edinburgh**, *Legal practice*, Diploma
30 114 **Glasgow**, *Legal practice*, Diploma
30 115 **Glasgow**, *Roman law*, Diploma
30 116 **Hull**, *Comparative law*, Diploma
30 117 **Leeds Poly**, *European community law and integration*, Diploma
30 118 **Liverpool**, *International law*, Diploma 1 2 yrs f t (according to quals) (deg req not necessarily in

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30 125
30 126 **London (UC)**, *Law*, Diploma
30 127 **London (UC)**, *Shipping law*, Diploma
30 128 **Manchester**, *International law*, Diploma
30 129 **Manchester Poly**, *Industrial relations and labour law*, Diploma (CNAA)
30 130 **Oxford**, *Law*, Diploma
30 131 **Strathclyde**, *Legal practice*, Diploma
30 132 **Ulster**, *Administration and law*, Diploma
30 133 **Wales (Aberystwyth)**, *Common law*, Diploma
30 134 **Wales (Aberystwyth)**, *European law and government*, Diploma
30 135 **Wales (Aberystwyth)**, *International law and relations*, Diploma

QUEEN MARY COLLEGE
(University of London)

Centre for Commercial Law Studies

LLM in Commercial Law
One year full-time or two-year part time course in commercial law subjects in the University s LLM programme Options available are in the areas of intellectual property law banking law commercial arbitration competition law corporate insolvency insurance securities regulation and information technology

Diploma in Intellectual Property Law
One-year full time or two-year part-time course providing intensive postgraduate study in intellectual property law

Diploma in Media Law
One year full time or two-year part time course providing a grounding in the various areas of law affecting the media industries

For prospectus write to **Mrs Nicola Jones, Centre for Commercial Law Studies, Queen Mary College, Mile End Road, London E1 4NS**
Tel 01-980 4811 ext 3676

University of Southampton

Postgraduate Legal Studies

LLM One-year instructional course assessed by examination and dissertation Options specialise in maritime law subjects and international trade, and also include EEC law, human rights, industrial relations and law and the environment

PhD and MPhil Facilities available for research in most legal subjects

For prospectus write to
Postgraduate Admissions
Faculty of Law
The University
Southampton SO9 5NH.

University of Hull

LLM in International Law

One-year taught course assessed by examination and dissertation

Candidates may specialise in general international law or in international business law.

Options offered include international law, law of the sea, conflict of laws, EEC law, international law of human rights, international economic law, international business law

Postgraduate Prospectus available from:

Postgraduate Secretary
Faculty of Law
University of Hull
Hull HU6 7RX

UNIVERSITY OF BRISTOL



Postgraduate study in the Faculty of Law

Courses available

By advanced study and examination

- The LLM in Commercial Law
- The LLM in General Legal Studies
- The Diploma in English Legal Studies (this course is designed specifically for overseas law graduates wishing to study the main principles of English common law and equity)

By research

- Degree of Doctor of Philosophy (PhD)
- Degree of Master of Laws (LLM)

Write for further details to:
The Dean, Faculty of Law, University of Bristol, Wills Memorial Building, Queens Road, Bristol BS8 1RJ.

31 Librarianship and information studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

31 1 **Belfast**, *Library and information sciences*, MA/PhD
31 2 [illegible]
31 3 [illegible]
31 4 [illegible]
31 5 [illegible]
31 6 [illegible]
31 7 **Hatfield Poly**, *Information sciences*, MPhil/PhD (CNAA)
31 8 **Leeds Poly**, *Librarianship* MPhil/PhD (CNAA)
31 9 **Liverpool Poly**, *Library and information studies* MPhil/PhD (CNAA)
31 10 [illegible]
31 11 [illegible]
31 12 [illegible]
31 13 [illegible]
31 14 [illegible]
31 15 [illegible]
31 16 [illegible]
31 17 **Strathclyde**, *Librarianship* MLitt/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

31 18 **Belfast**, *Information studies* MA
31 19 **Belfast**, *Library studies*, MLS
31 20 **City**, *Librarianship and arts administration*, MA
31 21 [illegible]
31 22 [illegible] *n libraries* MLib (Wales)
31 23 [illegible])
31 24 [illegible] *n systems*, MLib (Wales)
31 25 [illegible] *nd archival stud es*, MLib
31 26 [illegible]
31 27 [illegible]
31 28 [illegible]
31 29 [illegible]
31 30 [illegible]
31 31 [illegible]
31 32 [illegible]
31 33 [illegible]
31 34 [illegible]
31 35 [illegible]

ing place of music in education, and to develop critical awareness of curricular methods and materials esp with regard to current issues and problems, aspects of children's musical development considered in context of recent research finding, phenomena which impinge upon development of abilities, attitudes, personality and motivation; *course inc:* musical development, curriculum studies, sociol aspects of music development. **Contact** Miss A McCord, Assistant Registrar & Secretary

32:75 Reading, *Musicology*, MMus
32:76 Reading, *Performance*, MMus
32:77 Roehampton IHE, *Music education*, MA/Diploma
32:78 Royal NCM, *Performance*, MusMPerf (Manchester)
32:79 Sheffield, *Music*, MMus
32:80 Southampton, *Musical composition*, BMus
32:81 Surrey, *Music*, MMus
32:82 Sussex, *Music*, MA
32:83 Wales (Aberystwyth), *Music*, MMus
32:84 Wales (Bangor), *Music*, MMus
32:85 Wales (Bangor), *Music*, MA
32:86 Wales (Cardiff), *Music*, MA
32:87 Wales (Cardiff), *Music*, MMus
32:88 York, *Music*, MA

Certificates and diplomas

32:89 Brighton Poly, *Music performance*, Diploma
32:90 Christ Church C (Canterbury), *Music education for the primary and middle years of schooling*, Diploma (Kent)
32:91 Exeter, *Education (music and the arts in education)*, Diploma
32:92 London (KQC), *Advanced musical studies*, Certificate
32:93 Royal NCM, *Advanced orchestral studies*, Diploma (Manchester)
32:94 Royal NCM, *Performance (including composition)*, Diploma (Manchester)
32:95 St Andrews, *Church music*, Diploma
32:96 Surrey, *Conducting*, Diploma
32:97 Surrey, *Musicological skills*, Diploma
32:98 Surrey, *Tonmeister studies*, Diploma
32:99 Welsh CM & D (Cardiff), *Music*, Advanced Certificate

33 Philosophy

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

33 1 **Aberdeen,** ***Philosophy,*** MLitt/PhD
33 2 **Belfast,** ***Philosophy*** MA/PhD
33 3 **Birmingham,** ***Philosophy,*** MA/MLitt/PhD
33 4 **Bradford,** ***Interdisciplinary human studies*** MPhil/PhD
33 5 **Brighton Poly,** ***Philosophy,*** MPhil/PhD (CNAA)
33 6 **Bristol,** ***Philosophy,*** MA/MLitt/PhD
33 7 **Cambridge,** ***Philosophy,*** MLitt/PhD
33 8 **City,** ***Philosophy,*** MPhil/PhD
33 9 **Dundee,** ***Philosophy,*** MPhil/PhD
33 10 **Durham,** ***Philosophy,*** MA/MLitt/PhD
33 11 **East Anglia,** ***Philosophy,*** MPhil/PhD
33 12 **Edinburgh,** ***Philosophy*** MLitt/PhD
33 13 **Essex,** ***Philosophy,*** MPhil/PhD
33 14 **Exeter,** ***Philosophy,*** MPhil/PhD
33 15 **Glasgow,** ***Philosophy,*** MLitt/PhD
33 16 **Hull,** ***Philosophy,*** MPhil/PhD
33 17 **Keele,** ***Philosophy,*** MA/PhD
33 18 **Kent,** ***Philosophy*** MA/PhD
33 19 **Lancaster,** ***Philosophy,*** MPhil/PhD
33 20 [illegible]
33 21 [illegible]
33 22 [illegible]
33 23 [illegible]
33 24 [illegible]
33 25 [illegible]
33 26 [illegible]
33 27 [illegible]
33 28 [illegible]
33 29 [illegible]
33 30 **Open,** ***Philosophy*** BPhil/MPhil/PhD
33 31 **Oxford,** ***Philosophy*** MLitt/DPhil
33 32 **Poly of North London,** ***History, philosophy and European studies*** MPhil/PhD (CNAA)
33 33 **Reading,** ***Philosophy,*** MPhil/PhD
33 34 **St Andrews,** ***Philosophy*** MPhil/PhD
33 35 **Sheffield,** ***Philosophy,*** MA/PhD
33 36 [illegible]
33 37 [illegible]
33 38 [illegible]
33 39 [illegible]
33 40 [illegible]
33 41 **Teesside Poly,** ***History of ideas,*** MPhil/PhD (CNAA)
33 42 **Thames Poly,** ***Philosophy,*** MPhil/PhD (CNAA)
33 43 **Trent Poly,** ***Philosophy*** MPhil/PhD (CNAA)

33:44 **Ulster,** *Philosophy*, MPhil/DPhil
33:45 **Wales (Aberystwyth),** *Philosophy*, MA/MSc/MSc(Econ)/PhD
33:46 **Wales (Bangor),** *Philosophy*, MA/PhD
33:47 **Wales (Cardiff),** *Philosophy*, MA/MScEcon/PhD
33:48 **Wales (Lampeter),** *Philosophy*, MA/PhD, supervision available: *Dept of Classics* classical epistemology, classical moral phil, Greek phil of lit, Greek phil of mind, pre-Socratic phil; *Dept of Phil* aesthetics, epistemology, hist of phil, math linguistics, math logic, moral phil, phil of action, phil of logic, phil of maths, phil of mind, phil of religion, phil of science, political phil, post-classical and med phil, Freud, Feuerbach, Fichte, Heidegger, Kant, Nietzsche, Schelling, Schopenhauer, Wittgenstein, phil of social science, *Dept of Theology* mod theology, phil theology, phil of religion, Buddhism, Hinduism Contact Dr DA Cockburn
33:49 **Wales (Swansea),** *Philosophy*, MA/MSc/PhD
33:50 **Warwick,** *Philosophy*, MPhil/PhD
33:51 **York,** *Philosophy*, MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

33:52 **Belfast,** *Philosophy*, MA
33:53 **Birmingham,** *Philosophy*, MA
33:54 **Bristol,** *Ancient philosophy*, MA
33:55 **East Anglia,** *Mathematical logic*, BPhil/MA
33:56 **East Anglia,** *Philosophy*, BPhil
33:57 **Edinburgh,** *Philosophy*, MSc
33:58 **Edinburgh,** *Philosophy*, MLitt
33:59 **Essex,** *Philosophy*, MA
33:60 **Exeter,** *Moral and social philosophy*, MA
33:61 **Exeter,** *Philosophy*, MA
33:62 **Glasgow,** *Philosophy*, MPhil
33:63 **Hull,** *Philosophy of mind*, MA
33:64 **Hull,** *Philosophy of science*, MSc
33:65 **Kent,** *Philosophy*, MA
33:66 **Kent,** *Philosophy (socialist studies)*, MA
33:67 **Lancaster,** *Philosophy*, MA
33:68 **Leeds,** *Logic and philosophy of language*, MA *See page 189*
33:69 **Leeds,** *Philosophy of mind*, MA *See page 189*
33:70 **Leicester,** *Philosophy of education*, MA(Ed)
33:71 **Liverpool,** *Philosophy*, MA
33:72 **London (Birkbeck),** *Philosophy*, MA
33:73 **London (Birkbeck),** *Philosophy and psychology of language*, MA
33:74 **London (Inst Ed),** *Philosophy*, MA
33:75 **London (Inst Ed),** *Philosophy of education*, MA
33:76 **London (Inst Ed),** *Psychology of education and philosophy of education*, MA/MSc
33:77 **London (KQC),** *Philosophy*, MA
33:78 **London (LSE),** *Logic and scientific method*, MSc
33:79 **London (LSE),** *Social philosophy*, MSc
33:80 **Manchester,** *Philosophy of law*, MJur
33:81 **Newcastle Poly,** *History of ideas*, MA/Diploma (CNAA)
33:82 **Nottingham,** *Philosophy*, MA
33:83 **Oxford,** *Philosophy*, BPhil
33:84 **St Andrews,** *Philosophy*, MLitt/MPhil/Diploma
33:85 **St Andrews,** *Philosophy and psychology*, MLitt/Diploma
33:86 **Sheffield,** *Philosophy*, MA

33.87 **Sussex,** *Logic and scientific method,* MSc
33 88 **Sussex,** *Philosophy,* MA
33·89
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33 92
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33.97

Certificates and diplomas

33.98 **Aberdeen,** *Philosophy,* Diploma
33·99 **Exeter,** *Philosophy,* Diploma
33:100 **York,** *Philosophy,* Diploma

34 Politics and government

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

34:1 **Aberdeen,** *Political economy,* MLitt/PhD
34:2 **Aberdeen,** *Politics,* MLitt/PhD
34:3 **Bath,** *Political economy,* MPhil/PhD
34:4 **Bath,** *Politics,* MPhil/PhD
34:5 **Belfast,** *Political science,* MA/MSSc/PhD
34:6 **Birmingham,** *Political science and international studies,* MSocSc/MPhil/PhD
34:7 **Birmingham Poly,** *Government and economics,* MPhil/PhD (CNAA)
34:8 **Bradford,** *Politics,* MPhil/PhD
34:9 **Bristol,** *Politics,* MSc/MPhil/PhD
34:10 **Brunel,** *Government,* MPhil/PhD
34:11 **Buckingham,** *Politics,* MPhil/DPhil
34:12 **Cambridge,** *Economics and politics,* MSc/PhD
34:13 **Cambridge,** *Social and political sciences,* MSc/PhD
34:14 **City of London Poly,** *Politics and government,* MPhil/PhD (CNAA)
34:15 **Coventry (Lanchester) Poly,** *Politics and history,* MPhil/PhD (CNAA)
34:16 **Dundee,** *Political science and social policy,* MPhil/PhD
34:17 **Durham,** *Politics,* MA/MPhil/PhD
34:18 **East Anglia,** *Politics including international relations,* MPhil/PhD
34:19 **Edinburgh,** *European governmental studies,* MPhil/PhD
34:20 **Edinburgh,** *Politics and government,* MPhil/PhD
34:21 **Essex,** *Government,* MPhil/PhD
34:22 **Exeter,** *Politics,* MPhil/PhD
34:23 **Glasgow,** *Politics,* MLitt/PhD
34:24 **Huddersfield Poly,** *Politics,* MPhil/PhD (CNAA)
34:25 **Hull,** *Politics,* MPhil/PhD
34:26 **Keele,** *Politics,* MA/PhD
34:27 **Kent,** *Politics and government,* MPhil/PhD
34:28 **Kingston Poly,** *Economics and politics,* MPhil/PhD (CNAA)
34:29 **Lancaster,** *Politics,* MPhil/PhD
34:30 **Leeds,** *Politics,* MA/MPhil/PhD
34:31 **Leicester,** *Politics,* MPhil/PhD
34:32 **Liverpool,** *Political theory and institutions,* MPhil/PhD
34:33 **London (Birkbeck),** *Politics,* MPhil/PhD
34:34 **London (LSE),** *Government,* MPhil/PhD
34:35 **London (Queen Mary),** *Political studies,* MPhil/PhD; supervision available for research, sp interest in: British politics, public policy, politics and govt of E London, political theory and hist of political thought, politics of minorities, W European politics inc EEC, international relations inc strategic studies; specific staff interests inc: interplay betwn economics and politics at all levels, relationship betwn theory and practice; mod France and Italy esp mass media; interaction of member states of Warsaw Pact and naval strategy; relationship betwn European law and policy and national policy on equality; political role of women in contemp societies; political sociol; mod political theory; political and social development of E London, impact of immigration, race relations, labour movement; political thought; health policy in Britain; management of unemployment. Contact David Black

34 36 **London (SOAS),** *Politics*, MPhil/PhD
34 37 **London (UC),** *Political economy*, MPhil/PhD
34 38 **Manchester,** *Government*, MA(Econ)/PhD
34 39 **Newcastle,** *Political studies*, MA/PhD
34 40 **N Staffs Poly,** *International relations and politics*, MPhil/PhD (CNAA)
34 41 **Nottingham,** *Politics* MPhil/PhD
34 42 **Open,** *Government and politics*, BPhil/MPhil/PhD
34 43 **Oxford,** *Politics*, MLitt/DPhil
34 44 **Plymouth Poly,** *Social and political studies* MPhil/PhD (CNAA)
34 45 **Poly of Central London,** *Government*, MPhil/PhD (CNAA)
34 46 **Reading,** *Politics*, MPhil/PhD
34 47 **St Andrews,** *Politics (international studies)*, MPhil/PhD
34 48 **Salford,** *Politics and contemporary history*, MA/MSc/PhD
34 49 **Sheffield,** *Political theory and institutions* MPhil/PhD
34 50 **Southampton,** *Politics*, MPhil/PhD
34 51 **Stirling,** *Political studies*, MLitt/PhD
34 52 **Strathclyde,** *Politics*, MSc/PhD
34 53 **Sussex,** *Politics*, MPhil/DPhil
34 54 **Sussex,** *Social and political thought*, MPhil/DPhil
34 55 **Teesside Poly,** *Politics*, MPhil/PhD (CNAA)
34 56 **Thames Poly,** *Politics*, MPhil/PhD (CNAA)
34 57 **Ulster,** *Philosophy and politics* MPhil/DPhil
34 58 [illegible]
34 59 [illegible]
34 60 [illegible]
34 61 [illegible]
34 62 [illegible]
34 63 **Warwick,** *Politics*, MA/MPhil/PhD
34 64 **Wolverhampton Poly,** *Politics*, MPhil/PhD (CNAA)
34 65 **York,** *Politics* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

34 66 **Belfast,** *Economic and political thought* MSSc
34 67 **Belfast,** *Irish political studies* MSSc
34 68 **Birmingham,** *Political science* MSocSc
34 69 **Bristol,** *Domestic politics and foreign policy*, MSc 1 yr f t 2 yrs p t *course content* competing theories of policy making policy making in developed world policy making in developing world strategies of research in politics dissertation **Contact Dr G Segal**
34 70 [illegible]
34 71 [illegible]
34 72 [illegible]
34 73 [illegible]
34 74 [illegible]
34 75 **Edinburgh,** *European governmental studies* MPhil
34 76 **Essex,** *History and philosophy of social and political science*, MA
34 77 **Essex,** *Ideology and discourse analysis*, MA
34 78 **Essex,** *Latin American government and politics*, MA
34 79 **Essex,** *Political behaviour*, MA
34 80 **Essex,** *Political economy*, MA
34 81 **Essex,** *Political theory* MA
34 82 **Essex,** *Social science data analysis*, MA/Diploma

34:83 **Essex,** *Soviet government and politics*, MA
34:84 **Essex,** *United States government and politics*, MA
34:85 **Essex,** *Western European politics*, MA
34:86 **Exeter,** *Politics with special reference to the Middle East*, MA
34:87 **Glasgow,** *Political philosophy*, MPhil
34:88 **Glasgow,** *Scottish government and administration*, MPhil
34:89 **Hull,** *European integration and co-operation*, MA
34:90 **Hull,** *International law and politics*, MA
34:91 **Hull,** *International politics*, MA
34:92 **Hull,** *Modern British politics*, MA
34:93 **Hull,** *Policy processes in industrial societies*, MA
34:94 **Hull,** *Political philosophy*, MA
34:95 **Keele,** *United States history and institutions*, MA
34:96 **Kent,** *Comparative politics and political development*, MA/Diploma
34:97 **Leeds,** *British government*, MA
34:98 **Leeds,** *Political sociology*, MA
34:99 **Leeds,** *Political sociology of development*, MA
34:100 **London (Birkbeck),** *Politics and administration*, MSc *See page 193*
34:101 **London (Birkbeck),** *Politics with sociology*, MSc *See page 193*
34:102 **London (Inst Commonwealth Studies),** *Area studies: Commonwealth*, MA
34:103 **London (Inst Ed),** *Political education*, MA
34:104 **London (LSE),** *Comparative government*, MSc
34:105 **London (LSE),** *History of political thought*, MSc
34:106 **London (LSE),** *Political philosophy*, MSc
34:107 **London (LSE),** *Political sociology*, MSc
34:108 **London (LSE),** *Politics and government of Russia*, MSc
34:109 **London (LSE),** *Politics and government of the United Kingdom*, MSc
34:110 **London (LSE),** *Politics and government of Western Europe*, MSc
34:111 **London (SOAS),** *Politics*, MSc
34:112 **London (SSEES),** *Politics and government of Russia*, MSc
34:113 **Manchester,** *Government*, MA(Econ)
34:114 **Manchester Poly,** *Labour politics*, MA (CNAA)
34:115 **Middlesex Poly,** *Political economy*, MA
34:116 **Nottingham,** *Political economy and political culture: Britain and France*, MA
34:117 **Oxford,** *Politics*, MPhil
34:118 **Reading,** *Politics, patronage and literature 1520-1660*, MA
34:119 **St Andrews,** *Management, economics, politics*, MLitt/MPhil/Diploma
34:120 **Salford,** *Politics and contemporary history*, MA
34:121 **Sussex,** *Social and political thought*, MA
34:122 **Thames Poly,** *Political economy*, MA (CNAA)
34:123 **Wales (Swansea),** *Political theory and government*, MA
34:124 **Warwick,** *Politics*, MA
34:125 **York,** *Asian politics*, MA
34:126 **York,** *Political philosophy*, MA

Certificates and diplomas

34:127 **Essex,** *Political science*, Certificate
34:128 **Kent,** *Economics*, Diploma
34:129 **Lancaster,** *Politics*, Diploma
34:130 **London (LSE),** *International and comparative politics*, Diploma
34:131 **Manchester,** *Government*, Diploma
34:132 **Strathclyde,** *Government and politics*, Diploma
34:133 **Wales (Aberystwyth),** *European law and government*, Diploma
34:134 **Wales (Aberystwyth),** *Political science*, Diploma

University of Hull



Postgraduate Studies in Politics

The Department of Politics offers 6 MA courses, two Diploma courses, and research supervision over a wide range of subjects, within the Graduate School

- PhD/MPhil supervision — special interests in International, British, and European politics, Third World politics, and political theory
- MA courses — *full time or part time*, including a research training element
- Diplomas — in Political Analysis & *Public Administration*

Enquiries about any of these are welcome and should be addressed in the first instance to the Director of the Graduate School Department of Politics, University of Hull, Hull HU6 7RX
Telephone (0482) 46311 ext 6208/5754

GRADUATE STUDIES IN POLITICS

University of Essex
[illegible] of Government

[illegible]
sequence
The schemes offered for 1986/87 are
1) Political Behaviour
2) Political Economy
3) Political Theory
4) Ideology and Discourse Analysis
5) Latin American Politics
6) Soviet Politics
7) United States Government and Politics
8) Western European Politics

The Department welcomes appl cations for the ***MPhil and PhD*** *programmes (research tra ning and thesis) from graduates with an MA or an excellent*

[illegible] PhD

[illegible]
cerning full time, as well as part time [illegible]
application forms from Graduate Secretary Department of Government University of Essex
Colchester CO4 3SQ Essex England

University of Leeds

Department of Politics

The Department of Politics at the University of Leeds has fourteen full time staff and a graduate school which averages between 40 to 50 students a year *Research training is offered to all research students and applications are welcome in the following areas*

- — British politics and administration
- — The politics of Africa especially Southern Africa
- — Development theory
- — Working class political movements
- — 19th & 20th century political theories and doctrines
- — Communist politics
- — Politics of USA and Canada
- — Comparative politics and pol tical sociology

The department also offers three MAs which can be taken on a full time or part time basis These are MA in political sociology MA in the political sociology of development, MA in British government

Further information can be obtained from **Department of Politics, Leeds University, Leeds LS2 9JT.**

BIRKBECK COLLEGE

University of London

DEPARTMENT OF POLITICS & SOCIOLOGY

MASTERS DEGREES in POLITICS & SOCIOLOGY, and POLITICS & ADMINISTRATION

One year full time two years part time All formal teach ng takes place in the evenings Normally applicants will have a good first degree in a relevant subject or subjects

MSc Politics & Sociology
Compulsory courses in Political Theory and Pol tical Sociology plus two options

MSc Politics & Administration
Compulsory courses in Modern British Politics and Policy and Administration plus two options

Options include *American Pol tics and Society Western European Government Society and Politics in the Third World* Communist Theory and its Institutional Setting Pol tics and Social Policy Parliamentary Studies Rel gion Culture and Politics War in Modern Society

The Department also offers supervision for RESEARCH to MPhil and PhD level Further deta ls from the Department

Applications as early in the year as possible to Admissions Officer Department of Politics & Sociology Birkbeck College Malet Street London WC1E 7HX Tel 01-631 6542

35 Psychology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

35:1 **Aberdeen,** *Psychology,* MLitt/MSc/PhD; supervision available, exptl work in progress on ageing and pre-senile dementia; theoretical and practical aspects of face memory; witness testimony; problem solving and reasoning (inc cross-cultural aspects); biofeedback, person perception, memory and psychol of lang; work also in progress on neurophysiol of visual learning, emotion; human ethology, imprinting and effects on behaviour of early experience; psychopharmacology; theoretical interests inc problems in hist and phil of psychol, hist of ideas about childhood and contemp theories of person; phenomenology; emotional disturbance in children; facilities for research inc lab space and technical and clerical support; panels of adult volunteer subjs, connections with local schools and hospitals, animal lab housing rats; microcomputers, minicomputers, access to Univ's installation. **Contact** Dr PR Kinnear

35:2 **Belfast,** *Psychology,* MSc/PhD

35:3 **Birmingham,** *Psychology,* MSc/PhD

35:4 **Bolton IHE,** *Psychology,* MPhil/PhD (CNAA)

35:5 **Bradford,** *Interdisciplinary human studies,* MPhil/PhD

35:6 **Bradford,** *Psychology,* MPhil/PhD

35:7 **Bradford,** *Social psychology,* MPhil/PhD

35:8 **Bristol,** *Psychology,* MSc/PhD

35:9 **Brunel,** *Human learning,* MPhil/PhD; supervision available for research, current interests in study of human learning, inc: human learning in its natural habitats, techniques for development of theory and methodology for learning conversations, development of materials for training of trainers; application of personal construct psychol and conversational repertory grid technology for human learning; adv courses and materials on learning-to-learn methods for teachers, trainers and students; self-organised learning for man-management, repertory grid computer-aided methods for quality control appraisal and selection; open-learning techniques for distance teaching; computer-aided reading-to-learn and CAL programs for learning of foreign langs. **Contact** Dr LF Thomas

35:10 **Brunel,** *Human sciences,* MPhil/PhD

35:11 **Cambridge,** *Experimental psychology,* MSc/PhD

35:12 **City,** *Psychology,* MPhil/PhD

35:13 **City of London Poly,** *Psychology,* MPhil/PhD

35:14 **Cranfield,** *Applied psychology,* MSc/PhD

35:15 **Dundee,** *Psychology,* MPhil/PhD

35:16 **Durham,** *Psychology,* MA/MPhil/MSc/PhD

35:17 **Edinburgh,** *Psychology,* MPhil/PhD

35:18 **Exeter,** *Psychology,* MPhil/PhD

35:19 **Glasgow,** *Psychology,* MLitt/MSc/PhD; opportunities for p-g study and research in: human exptl, animal, social, developmental and educational psychol; sp interests: psychophysiol, perception, physiol psychol, colour vision and colour blindness, semantic memory, understanding written texts and dialogue, perceptual development in infancy, gerontology, exptl social psychol, social representations, cross-cultural studies; hist of psychol. **Contact** Simon Garrod

35:20 **Hatfield Poly,** *Psychology,* MPhil/PhD (CNAA)

35:21 **Huddersfield Poly,** *Behavioural sciences,* MPhil/PhD (CNAA)

35:22 **Hull,** *Psychology,* MPhil/MSc/PhD; supervision available in all research fields; exptl and social psychol, position senses, perceptuo-motor skills and motor control, psychol of thinking, social facilitation; educational and occupational psychol, cognitive development, discontinuities in

psychophysiol behavioural pharmacology psychopharmacology of alcohol Parkinson s disease normal and abnormal ageing dementia behaviour therapy diagnostic questionnaire technology **Contact** Dr DF Sewell

35 23 Keele, ***Communication and neuroscience,*** MSc/PhD

35 24 Keele, ***Psychology,*** MA/PhD

35 25 Kent, ***Social psychology,*** MPhil/PhD

35 26 Lancaster, ***Behaviour in organisations,*** MPhil/PhD

35 27 Lancaster, ***Psychology,*** MPhil/PhD supervision available research interests in following areas social psychol, neuropsychol developmental psychol personality cognitive psychol math

personal attraction television production techniques social psychol non verbal behaviour gp processes cognitive and perceptual development in infants and young children development of concepts of objects and space acquisition of spatial diectic terms psychol of lang and memory esp

cognitive development intellectual and physiol development **Contact** Dr N Johnson

35 28 Leeds, ***Psychology,*** MSc/MPhil/PhD supervision available areas of research specialisation

35 29 Leicester, ***Psychology,*** MSc/MPhil/PhD

35 30 Liverpool, ***Psychology,*** MA/MSc/MPhil/PhD

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35 32 [illegible]

35 33 [illegible]

35 34 [illegible]

35 35 [illegible]

35 36 [illegible]

ate Adviser)

35 37 [illegible]

35 38 [illegible]

35 39 [illegible]

35 40 [illegible]

35 41 [illegible]

35 42 [illegible] CNAA)

35 43 [illegible]

35 44 [illegible]

35 45 [illegible]

35:46 **Plymouth Poly,** *Psychology,* MPhil/PhD (CNAA), supervision available for research, specialist facilities for work in animal behaviour, cognition, developmental psychol, physiol psycho psychophysiol, social psychol. Contact: Academic Registrar

35:47 **Poly of Central London,** *Neurobiology and psychology,* MPhil/PhD (CNAA)

35:48 **Poly of Wales,** *Behavioural and communication studies,* MPhil/PhD (CNAA)

35:49 **Reading,** *Psychology,* MPhil/PhD

35:50 **St Andrews,** *Psychology,* MSc/PhD

35:51 **Sheffield,** *Applied psychology,* MPhil/PhD

35:52 **Sheffield,** *Psychology,* MPhil/MSc/PhD; supervision available, principal research interests in computational, psychophysical and neurophysical mechanisms of visual perception in humans ar animals inc clinical applications; development of skills in children inc psychophysiol of mot control and motor problems of handicapped; development of pre-school children inc social lar and cognitive development; play and child ethology; psychobiol inc neurochem correlates behaviour; genetics of behaviour; functions of dopamine systems; computer simulations in psych theory; CAL; psychol factors in management of diabetes mellitus; geog and locational skills i young children; interpersonal communication and non-verbal behaviour; organisational psycho unemployment and mental health. Contact Dr Christopher Spencer

35:53 **Southampton,** *Psychology,* MPhil/PhD; supervision available, staff interests inc: picture percep tion, pitch recognition, hist and theory; cognitive science, human neuropsychol, expert system microcomputers in the classroom; eee, attention and individual differences, social-psychol pro cesses in family; cognitive processes in production of speech; ethogenic approach to social intera tion, leisure, football-related disorders; psychol and health; social and cognitive development i young children, sign lang with retarded children; cognitive loss in human ageing, pain; memory fc stories in children; behaviour modification, learned helplessness; development of problem-centre methodology in practice of educational psychol; psychopathy, role of specific learning defects i persistent criminality, strategies in treatment of offenders; social psychol of aggression, beliefs an values related to violence, social influence processes, multivariate research methods; psych influences on cardiovascular disorders; motion sickness. Contact Dr Roger Ingham

35:54 **Stirling,** *Psychology,* MSc/PhD

35:55 **Strathclyde,** *Psychology,* MSc/PhD

35:56 **Surrey,** *Psychology,* MPhil/PhD; supervision available, research interests in following areas environmental psychol, clinical and health psychol, development psychol, social psychol, cogni tive psychol (ergonomics). Contact Dr H McGurk

35:57 **Sussex,** *Cognitive studies,* MPhil/DPhil

35:58 **Sussex,** *Experimental psychology,* MPhil/DPhil; research training available in: animal learning audition and speech, cognitive psychol, computational models of mental processes and behaviou developmental psychol, human skilled performance, memory and learning, physiol psychol psycholinguistics, thinking and problem solving, vision; *research interests:* cognitive developmen in children, meaning and inference, speech perception and recognition, use of intonation i English, comprehension of speech, perception of music, comprehension of text, human visua motion perception, mechanisms of visual perception, perception as unconscious inference, model of lexical access and pronunciation, org amnesia, learning difficulties in blind, human perform ance, control of food intake, hormones and behaviour, animal learning, human conditioning, brai stem coding of speech. Contact Dr RA Boakes

35:59 **Sussex,** *Psychology,* MPhil/DPhil

35:60 **Ulster,** *Psychology,* MPhil/DPhil

35:61 **Wales (Bangor),** *Psychology,* MA/MSc/PhD; supervision available, staff research interests inc dyslexia and ability to process symbolic material, comparative studies of animal behaviour information processing in reading with sp ref to dyslexia, bilingualism and reading, social conse quences of dyslexia, effects of attention and laterality on speech perception and production, huma and animal operant behaviour, application of learning principles to clinical problems, role o speech in regulation of behaviour; lab with on-line computer, eqpt for study of operant behaviou of humans and animals. Contact Professor TR Miles

35:62 **Wales (Cardiff),** *Psychology,* MSc/PhD

35:63 **Wales (Swansea),** *Psychology,* MA/MSc/MSc(Econ)/PhD

35:64 **Wales (UWIST),** *Applied psychology,* MSc/PhD

35:65 **Warwick,** *Psychology,* MPhil/PhD; supervision available, research interests: *chemoreception:* effects of odours on attitudes, ageing in olfactory system; *child development:* fantasy play and co-operative activity, handicapped children lang development; *psychotherapy:* marital therapy,

x in schizophrenia *social psychol* Contact Dr C Van Toller

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5 69 **York,** *Psychology,* MPhil/DPhil research degrees supervised in areas of staff interest attention and skilled performance cognitive and perceptual processes in reading man machine interaction

intelligence visual perception mechanisms underlying motion perception exptl abnormal psychol training in stat and computer usage **Contact** Professor Peter Venables

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

70 **Belfast,** *Abnormal psychology,* MSc

71 **Belfast,** *Developmental and educational psychology,* MSc

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78 **Edinburgh,** *Educational psychology,* MSc/Diploma

79 **Exeter,** *Educational psychology,* MEd

80 **Glasgow,** *Educational psychology and child guidance,* MAppSci/Diploma

81 **Hatfield Poly,** *Occupational psychology,* MSc (CNAA)

82 **Huddersfield Poly,** *Analysis of decision processes* MSc (CNAA)

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84 **Keele,** *Psychology of mental handicap,* MA

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35:94 **London (Inst Ed),** *Child development with primary education,* MA
35:95 **London (Inst Ed),** *Educational psychology,* MA/MSc
35:96 **London (Inst Ed),** *Educational statistics and child development,* MA/MSc
35:97 **London (Inst Ed),** *Educational statistics and psychology of education,* MA/MSc
35:98 **London (Inst Ed),** *Psychology and education of children with special needs,* MA/MSc
35:99 **London (Inst Ed),** *Psychology of education,* MA/MSc
35:100 **London (Inst Ed),** *Psychology of education and philosophy of education,* MA
35:101 **London (LSE),** *Social psychology,* MSc
35:102 **London (UC),** *Educational psychology,* MSc
35:103 **Manchester,** *Educational psychology,* MSc
35:104 **Manchester (UMIST),** *Organisational psychology,* MSc
35:105 **Newcastle,** *Educational psychology,* MSc
35:106 **NE London Poly,** *Educational psychology,* MSc (CNAA)
35:107 **NE London Poly,** *Occupational and organisational psychology,* MSc (CNAA)
35:108 **Nottingham,** *Child psychology,* MA/MSc
35:109 **Reading,** *Research methods in psychology,* MSc/Diploma
35:110 **Roehampton IHE,** *Psychological counselling,* MSc (Surrey)
35:111 **St Andrews,** *Philosophy and psychology,* MLitt/Diploma
35:112 **Salford,** *Applied psychology,* MSc
35:113 **Sheffield,** *Educational psychology,* MSc
35:114 **Sheffield,** *Occupational psychology,* MA
35:115 **Southampton,** *Educational psychology,* MSc(SocSc)
35:116 **Stirling,** *Psychology,* MSc
35:117 **Strathclyde,** *Educational psychology,* MSc
35:118 **Strathclyde,** *Research methods in developmental and social psychology,* MSc
35:119 **Surrey,** *Environmental psychology,* MSc, 1c yr f-t; concerned with interface betwn physical surroundings and people who use and create them; training for employment in variety of situations (eg local and central govt, architecture and design firms), also preparation for research for higher deg; *course content:* research methods, areas of application (architectural form and function, building science, macroscale issues), design decision making (psychol of design, professional practice, decision making); assessment of coursework, exam and dissertation. Contact Professor D Canter
35:120 **Sussex,** *Experimental psychology,* MSc, 1 yr f-t; intended primarily for grads in other disciplines; based mainly on coursework, equips students to proceed to research deg or other postgraduate training in psychol; recognised by BPS; *course content:* intro to psychol, animal psychol, perception, lang and memory, physiol psychol *or* biol bases of behaviour, AI *or* learning *or* speech hearing or cognitive development; exam, 2 short dissertations. Contact Dr RA Boakes
35:121 **Wales (Bangor),** *Education in the field of dyslexia,* MEd
35:122 **Wales (Swansea),** *Educational psychology,* MEd
35:123 **Wales (UWIST),** *Applied psychology,* MSc *See page 199*
35:124 **Warwick,** *Cognition, computing and psychology,* MSc, 1 yr f-t; cognitive science course ' interdisciplinary grounding and intake from psychol and computer science; *contains courses* non-numeric programming (LISP and PROLOG); knowledge eng; lang; man-machine inte tion; computers in education; cognitive science, methodology; artificial intelligence; assesse exams, essays, practical reports and major project report/dissertation. Contact Dr JR Thom
35:125 **Wolverhampton Poly,** *Psychology,* MSc/Diploma (CNAA)

Certificates and diplomas

5 126 [illegible] Diploma

5 127 [illegible]

5 128 [illegible]

5 129 [illegible]

5 130 **Surrey,** *Psychology,* Diploma 1 yr f t, prelim course for entry to MSc training in research design [illegible]

McGurk

35 131 **Wales (UWIST),** *Psychology,* Diploma

36 Public administration

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which the propose to carry out research. Information about the periods of study required for research degrees given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgradu ate studies' section.

36:1 **Aston**, *Management*, MPhil/PhD
36:2 **Bath**, *Public administration*, MPhil PhD
36:3 **Birmingham**, *Health services management*, MSocSc/MPhil/PhD
36:4 **Birmingham**, *Local government studies*, MSocSc/MPhil/PhD
36:5 **Birmingham Poly**, *Government and economics*, MPhil/PhD (CNAA)
36:6 **Bristol**, *Urban studies*, MPhil PhD
36:7 **Kent**, *Health services administration*, MPhil/PhD
36:8 **Leeds**, *Social policy and health services studies*, MPhil PhD
36:9 **Leeds Poly**, *Health education*, MPhil/PhD (CNAA)
36:10 **Leicester Poly**, *Applied social sciences and public administration*, MPhil/PhD (CNAA)
36:11 **London (LSE)**, *Public administration*, MPhil/PhD
36:12 **Newcastle Poly**, *Health studies*, MPhil PhD (CNAA)
36:13 **Oxford**, *Transport studies*, MPhil/DPhil
36:14 **Sheffield City Poly**, *Health studies*, MPhil/PhD (CNAA)
36:15 **Sheffield City Poly**, *Public sector administration*, MPhil/PhD (CNAA)
36:16 **Southampton**, *Politics*, MPhil/PhD
36:17 **Strathclyde**, *Operational research*, MSc/PhD
36:18 **Strathclyde**, *Public policy*, MSc/PhD
36:19 **Trent Poly**, *Economics and public administration*, MPhil/PhD (CNAA)
36:20 **Ulster**, *Business and management*, MPhil DPhil
36:21 **York**, *Politics*, MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research projec (normally lasting three months) with submission of a written report, dissertation or thesis is normall a part of these courses

36:22 **Aston**, *Public sector management*, MSc/Diploma
36:23 **Bath**, *Public policy*, MSc
36:24 **Birmingham**, *Local government and health service studies*, MSocSc
36:25 **Bristol**, *Public policy studies*, MPP
36:26 **Brunel**, *Public and social administration*, MA, 1 yr f-t, 2 yrs p-t; course inc research methods, analysis of social policy and admin, social and political thought; specialisation in 1 of community and race relations, educational policy, health service policy, hist of social policy, housing policy, personal social services policy, social security and voluntary sector, local government studies; students undertake short dissertation which allows them to develop their own interests (ESRC quota places and DHSS studentships available). Contact Mrs SA Harris
36:27 **Buckingham**, *Public sector studies*, MSc/Diploma
36:28 **College of Librarianship (Wales)**, *Library and information services for health care*, MLib (Wales)
36:29 **Glasgow**, *Public health*, MPH
36:30 **Hull**, *Health administration and research*, MSc/Diploma
36:31 **Kent**, *Public policy studies*, MA/Diploma
36:32 **Leeds**, *Health services studies*, MA *See page 202*

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36 43 Salford, *Public sector economics*, MSc/Diploma
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36 49 Ulster, *Policy analysis*, MSc
36 50 Ulster, *Public administration*, MPA
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36 55 York, *Health economics*, MSc/Diploma

Certificates and diplomas

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36:75 **Sunderland Poly,** *Management studies*, DMS (CNAA)
36:76 **Thames Poly,** *Management studies (health services)*, DMS (CNAA)
36:77 **Ulster,** *Public administration*, Diploma
36:78 **Warwick,** *Public administration and policy analysis*, Diploma

37 Regional studies: Africa

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory Postgraduate studies' section

37.1 **Aberdeen,** *African studies,* MLitt/PhD
37 2 **Birmingham,** *West African studies,* MA/MLitt/PhD
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37.7 **Oxford,** *African studies,* MLitt/DPhil
37 8 **Sussex,** *African studies,* MPhil/DPhil
37 9 **York,** *Southern African studies,* MPhil/DPhil, supervision available, current research interests inc 19th and 20th cent Mozambique, Malawi, Zambia, Zimbabwe, company and colonial rule and African oral poetry, social anthropology migration and migrant labour, development and social change in C and S Africa, women and family, 19th and 20th cent African hist, W and S Africa esp Imperial rule and local response, development of nationalist movements in sub Saharan Africa, relations betwn USA and S Africa, Zimbabwe, prospects for industrialisation in S Africa with sp ref to transnational corporations **Contact** Landeg White

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

37.10 **Birmingham,** *West African studies,* MA
37.11 **Birmingham,** *West African studies,* MSocSc
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37.14
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37.18

38 Regional studies: America

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

38:1 **Cambridge,** *Latin-American studies,* MLitt/PhD
38:2 **Exeter,** *American studies,* MPhil/PhD
38:3 **Glasgow,** *Latin American studies,* MLitt/PhD
38:4 **Hull,** *American studies,* MPhil/PhD
38:5 **Keele,** *American studies,* MA/PhD
38:6 **Leicester,** *American studies,* MA/MPhil/PhD
38:7 **Liverpool,** *Latin American studies,* MPhil/PhD
38:8 **London (KQC),** *Spanish and Spanish-American studies,* MPhil/PhD
38:9 **Manchester,** *American studies,* MPhil/PhD
38:10 **Newcastle,** *Latin American studies,* MLitt/PhD
38:11 **Nottingham,** *American studies,* MPhil/PhD
38:12 **Oxford,** *Latin American studies,* MLitt/DPhil
38:13 **St Andrews,** *Spanish,* MPhil/PhD
38:14 **Sussex,** *American studies,* MPhil/DPhil
38:15 **Wales (Aberystwyth),** *American studies,* MA/PhD
38:16 **Warwick,** *Caribbean studies,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

38:17 **Cambridge,** *Latin-American studies,* MPhil, 1 yr f-t; *course content:* specialisation in 1 of following areas of study in Latin American context economics, rural sociol, hist, social anthropology, mod lit, urban sociol, ethnohistory, archaeology; choice of 3 papers from following (2 papers from 1 gp plus 1 paper from another gp): agrarian sociol of Andean zone, topic in Andean agrarian sociol, social anthrop of Andean zone and upper Amazon, hist of Mexico, topic in Mexican hist; Spanish American Lit, two Spanish American authors, arch and ethnohist of Mesoamerica and Andean zone, topic in arch and ethnohist of either Mesoamerica or Andean zone; urban sociol of Latin America, issues in urban planning of Latin America, politics and sociol of econ development of Latin America, economics of modern Latin America, topic in econ development of Latin America; assessment by thesis, written papers and oral exam or in sp cases by longer thesis and oral exam, updated brochure available Contact Dr DA Brading, Director
38:18 **East Anglia,** *American studies,* MA
38:19 **Edinburgh,** *North American studies (United States and/or Canada),* MPhil
38:20 **Essex,** *Latin American government and politics,* MA
38:21 **Essex,** *Native American studies,* MA
38:22 **Essex,** *United States government and politics,* MA
38:23 **Exeter,** *American studies,* MA, 1c yr f-t. 2 yrs p-t, *course content.* texts and topics in American studies; 2 options from range in hist, geog, politics, econ hist, film, lit; dissertation. Contact Dr J Smith
38:24 **Glasgow,** *Latin American studies,* MPhil

38 25 **Keele,** *United States history and institutions,* MA
38 26 **Liverpool,** *Latin American studies,* MA
38 27 [illegible]
38 28 [illegible]
38 29 [illegible]

38 30 [illegible]

38 31 [illegible]
38 32 [illegible]
38 33 [illegible]
38 34 [illegible]
38 35 [illegible]
38 36 **Nottingham,** *American studies,* MA
38 37 **Oxford,** *Latin American studies,* MPhil
38 38 **Oxford,** *Public policy in Latin America,* MSc
38 39 **St Andrews,** *Amerindian studies,* MPhil
38 40 **Sussex,** *American studies,* MA

Certificates and diplomas

38 41 **St Andrews,** *Quechua studies,* Diploma

39 Regional studies: Asia

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

39:1 **Cambridge,** *Divinity,* MLitt/PhD
39:2 **Durham,** *Oriental studies,* MA/MLitt/PhD
39:3 **Hull,** *South East Asian studies,* MPhil/PhD
39:4 **Kent,** *South East Asian studies,* MPhil/PhD
39:5 **London (SOAS),** *Classical Indian studies,* MPhil/PhD
39:6 **London (SOAS),** *Far East studies,* MPhil/PhD
39:7 **London (SOAS),** *Modern South Asian studies,* MPhil/PhD
39:8 **London (SOAS),** *South East Asia and the islands,* MPhil/PhD
39:9 **Oxford,** *Oriental studies,* MLitt/PhD
39:10 **Sheffield,** *Japanese studies,* MPhil/PhD
39:11 **Sussex,** *South Asian studies,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

39:12 **Hull,** *South East Asian studies,* MA/Diploma
39:13 **Kent,** *South East Asian studies,* MA/Diploma
39:14 **London (SOAS),** *Area studies: Far East,* MA
39:15 **London (SOAS),** *Area studies: South Asia,* MA
39:16 **London (SOAS),** *Area studies: South East Asia,* MA
39:17 **London (SOAS),** *Indonesian and Malay studies,* MA
39:18 **London (SOAS),** *Oriental and African religious studies,* MA
39:19 **London (SOAS),** *Politics,* MSc
39:20 **Oxford,** *Chinese studies,* MSt
39:21 **Oxford,** *Oriental studies,* MPhil
39:22 **Oxford,** *Syriac studies,* MSt
39:23 **York,** *Asian politics,* MA

SOCIAL SCIENCES AT GLASGOW

With a tradition of enquiry and innovation in the social sciences which goes back to the days of the Scottish Enlightenment and Adam Smith, the Faculty offers research degree opportunities (MLitt or PhD) in all major social science areas. Taught courses (Diploma or MPhil) are available in a wide variety of subjects:

- Applied Population Analysis
- Comparative Politics
- Comparative Regional Analysis
- Development Policy
- Economic Development
- Economic Planning
- Educational Studies
- Housing Studies
- Industrial Relations
- International Finance
- Latin American Studies
- Monetary Economics
- Political Theory and Philosophy
- Russian for Social Scientists
- Scottish Government & Administration
- Social Work
- Socialist Theories & Movements
- Sociology
- Soviet & East European Studies
- Town & Regional Planning
- Urban Policy

Details available from: Clerk to the Faculty of Social Sciences, Adam Smith Building, University of Glasgow, Glasgow G12 8RT
Telephone 041-339 8855 ext 4725/4693 **Please quote ref SGGS**

University of Oxford
FACULTY OF ORIENTAL STUDIES

MLitt/DPhil degrees by research Supervision is available in these areas of study

MPhil 2 year degree by instruction available in

- The ancient history of Mesopotamia
- Cuneiform studies
- Egyptology (including Graeco-Roman and Christian Egypt)
- Medieval Arabic thought
- Modern Middle Eastern studies
- Indian studies
- Modern Jewish studies
- Jewish studies in the Graeco-Roman period
- Islamic art and architecture
- Eastern Christian studies
- Ottoman studies
- Classical and Medieval Islamic history

MSt a newly instituted 1 year degree by instruction available in

- Chinese studies
- Classical Armenian studies
- Syriac studies
- Jewish studies in the Graeco-Roman period
- Modern Jewish studies

Further information from The Secretary Graduate Studies Committee Oriental Institute Pusey Lane Oxford OX1 2LE.

40 Regional studies: East Europe

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

40:1 **Bath,** *Modern languages,* MPhil/PhD
40:2 **Birmingham,** *Russian and East European studies,* MA/MLitt/MSocSc/MPhil/PhD
40:3 **Bradford,** *Yugoslav studies,* MPhil/PhD
40:4 **Glasgow,** *Soviet and East European studies,* MLitt/PhD; supervision available; research areas and projects mainly in social sciences and hist (esp economics and comparative economics, politics, Soviet and East European foreign policy), extending to lit and media, library resources on USSR, Yugoslavia, Poland, Czechoslovakia and Hungary (and now China). **Contact** Professor WV Wallace
40:5 **Keele,** *Russian studies,* MA/PhD
40:6 **London (SSEES),** *Slavonic and East European studies,* MPhil/PhD
40:7 **Oxford,** *Slavonic and East European studies,* MLitt/DPhil
40:8 **Sussex,** *Russian studies,* MPhil/DPhil
40:9 **Wales (Swansea),** *Russian and East European studies,* MA/MSc(Econ)/PhD
40:10 **Wolverhampton Poly,** *Languages and European studies,* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

40:11 **Birmingham,** *Russian and East European studies,* MSocSc
40:12 **Essex,** *Soviet government and politics,* MA
40:13 **Glasgow,** *Soviet and East European studies,* MPhil/Diploma, 2 yrs f-t (exceptionally 1 yr): 3 yrs p-t (MPhil), 1 yr f-t (Diploma); *syllabus:* 4 of Soviet economy, Soviet hist, Soviet social structure, Soviet industrial relations, Soviet politics and law, E European politics and economics I and 2, Soviet-type international economics, Soviet foreign policy, Soviet Russian lit or criticism, Russian revolution, politics and economy of China, Marxist thought, hist of international communism, Marxism-Leninism, Marxist economics; exams, plus dissertation for MPhil. **Contact** Professor WV Wallace
~ **ondon (LSE),** *Politics and government of Russia,* MSc
ndon (SSEES), *Area studies: Eastern Europe and Russia,* MA
ndon (SSEES), *Politics and government of Russia,* MSc
ford, *Russian and East European studies,* MPhil *See page 209*
ussex, *Russian studies,* MA

Consult

an institution's official prospectus before applying

UNIVERSITY OF OXFORD



MPhil
RUSSIAN AND EAST EUROPEAN STUDIES

[illegible]

[illegible]

Course advertisement

41 Regional studies: Europe

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

41:1 **Aston,** *Modern languages,* MPhil/PhD
41:2 **Bath,** *Modern languages,* MPhil/PhD
41:3 **Bradford,** *Languages and European studies,* MPhil/PhD
41:4 **Coventry (Lanchester) Poly,** *Language studies,* MPhil/PhD (CNAA)
41:5 **Edinburgh,** *European governmental studies,* MPhil/PhD
41:6 **Edinburgh,** *Scottish studies,* MLitt/PhD *See page 212*
41:7 **Exeter,** *Western European studies,* MPhil/PhD
41:8 **Glasgow,** *Hispanic studies,* MLitt/PhD
41:9 **Hull,** *European studies,* MPhil/PhD
41:10 **Keele,** *Geography,* MA/PhD
41:11 **Kent,** *European studies,* MPhil/PhD
41:12 **Lancaster,** *German studies,* MPhil/PhD
41:13 **London (Warburg),** *Combined historical studies,* MPhil/PhD
41:14 **Loughborough,** *European studies,* MA/PhD
41:15 **Poly of Central London,** *Languages,* MPhil/PhD
41:16 **Poly of North London,** *History, philosophy and European studies,* MPhil/PhD (CNAA)
41:17 **Reading,** *European and international studies,* MPhil/PhD
41:18 **Reading,** *French studies,* MPhil/PhD
41:19 **Reading,** *German,* MPhil/PhD
41:20 **Reading,** *Italian studies,* MPhil/PhD
41:21 **South Bank Poly,** *European studies,* MPhil/PhD (CNAA)
41:22 **Sussex,** *Contemporary European studies,* MPhil/DPhil
41:23 **Ulster,** *European studies and modern languages,* MPhil/DPhil
41:24 **Wolverhampton Poly,** *Languages and European studies,* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

41:25 **Belfast,** *Social anthropology (community studies in Western Europe),* MA
41:26 **Birmingham,** *European culture and society,* MA
41:27 **Durham,** *Western European political co-operation and economic integration,* MA
41:28 **Ealing CHE,** *Contemporary German studies,* MA/Diploma (CNAA)
41:29 **Edinburgh,** *European governmental studies,* MPhil
41:30 **Edinburgh,** *Scottish studies,* MLitt
41:31 **Essex,** *Western European politics,* MA
41:32 **Exeter,** *Economics of the European Community,* MA
41:33 **Exeter,** *Western European social studies,* MA
41:34 **Hull,** *Area studies: Britain and the Low Countries,* MA/Doctoraal
41:35 **Hull,** *European integration and co-operation,* MA
41:36 **Lancaster,** *German studies (intellectuals in East and West Germany),* MA

41 37 **London (LSE),** *European studies*, MSc
41 38 **London (LSE),** *Politics and government of Western Europe*, MSc
41 39 **Loughborough,** *Modern French studies*, MA
41 40 **Loughborough,** *Post war German studies* MA
41 41 **Newcastle Poly,** *French, German, Russian or Spanish area studies*, MA/Diploma (CNAA)
41 42 **Reading,** *European studies*, MA
41 43 **St Andrews,** *Scottish studies*, MLitt/Diploma
41 44 **Southampton,** *Contemporary German cultural studies*, MA
41 45 **Strathclyde,** *Contemporary German studies*, MLitt
41 46 **Surrey,** *European area studies*, MA/Diploma
41 47 **Sussex,** *Contemporary European studies*, MA

Certificates and diplomas

41 48 **Hull,** *Western European studies*, Diploma
41 49 **Leeds Poly,** *European community law and integration*, Diploma

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:uropean Area Studies | **UNIVERSITY OF SURREY**

egree MA/D ploma

ength of course 12 months full time (MA) 9 months full t me)iploma)

lo of places 15

tructure and assessment Students take a core course omprising European history since 1945 contemporary Vest and East European institutions and issues ieoretical approaches to the study of Europe Students lso choose two of three parallel options covering recent istory political social economic and intellectual

Entrance requirements A good bachelor s degree or equivalent either in an appropriate foreign language or a relevant social science (preferably with a competent reading knowledge of French German or Russian)

Head of Department Professor N B Reeves

Course Convenor *Dr C G Flood*

Application and enquiries The Departmental Secretary Department of Linguistic and International Studies University of Surrey Guildford GU2 5XH Telephone 0483 571281 ext 2842

List of chapter headings and numbers

on pages 42 and 43

42 Regional studies: Middle and Near East

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

42 1 **Cambridge,** *Oriental studies* MLitt/PhD
42 2 **Durham,** *Oriental studies,* MA/MLitt/PhD
42 3 **Edinburgh,** *Arabic and Islamic studies* MLitt/PhD
42 4 **Edinburgh,** *Turkish studies,* MLitt/PhD
42 5
42 6
42 7
42 8

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

42 9 **Durham,** *Human geography of the Middle East and Mediterranean* MA
42 10 **Edinburgh,** *Ancient Near Eastern and East Mediterranean studies* MLitt
42 11 **Exeter,** *Politics with special reference to the Middle East* MA
42 12 **Kent,** *Islamic studies,* MA/Diploma
42 13
42 14
42 15
42 16

Certificates and diplomas

42 17 **Birmingham,** *Islamic studies* Diploma

43 Science and technology: history and philosophy

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

43:1 **Aberdeen,** *History and philosophy of science,* MLitt/MSc/PhD
43:2 **Bath,** *History of technology,* MSc/PhD
43:3 **Belfast,** *History and philosophy of science,* MA/MSc/PhD
43:4 **Cambridge,** *History and philosophy of science,* MLitt/PhD
43:5 **Glasgow,** *History of science,* MLitt/PhD
43:6 **Kent,** *History, philosophy and social studies of science,* MPhil/PhD
43:7 **Leeds,** *History and philosophy of science,* MPhil/PhD; research may be supervised in wide area of hist and phil of science from early mod period to 20th cent; sp areas in which research encouraged: science in Scottish Enlightenment, hist of physics, hist of biol esp evolution and genetics in 19th and 20th cents, science and society since 1800, scientific insts, phil of science, science and ideology, scientific methodology. Contact Dr Jonathan Hodge
43:8 **Leicester,** *History and social relations of science,* MPhil/PhD
43:9 **London (Imperial),** *History of science or technology,* MPhil/PhD
43:10 **London (KQC),** *History and philosophy of science,* MPhil/PhD
43:11 **London (UC),** *History and philosophy of science,* MPhil/PhD· *See page 215*
43:12 **Manchester (UMIST),** *History of science and technology,* MSc/PhD
43:13 **Open,** *History of science and technology,* BPhil/MPhil/PhD
43:14 **Teesside Poly,** *History of science and technology,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

43:15 **Cambridge,** *History and philosophy of science,* MPhil *See page 215*
43:16 **Cambridge,** *History of medicine,* MPhil *See page 215*
43:17 **Hull,** *Philosophy of science,* MSc
43:18 **Kent,** *History, philosophy and social studies of science,* MA/MSc
43:19 **Lancaster,** *History of science,* MA
3:20 **Leeds,** *History of scientific thought,* MA
:21 **London (Imperial),** *History and philosophy of science,* MSc/DIC
3:22 **London (Imperial),** *History of technology,* MSc/DIC
43:23 **London (KQC),** *History and philosophy of science,* MPhil
43:24 **London (KQC),** *History and philosophy of science and mathematics,* MSc
43:25 **London (UC),** *History and philosophy of science,* MSc *See page 215*
43:26 **Manchester (UMIST),** *History of science and technology,* MSc

Certificates and diplomas

43:27 **Leeds,** *History and philosophy of science,* Diploma

Course advertisements

44 Science, technology and society

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

44:1 **Aston,** *Interdisciplinary studies,* MPhil/PhD
44:2 **Bradford,** *Science and society,* MPhil/PhD
44:3 **Bristol Poly,** *Science,* MPhil/PhD (CNAA)
44:4 **Edinburgh,** *Science studies,* MPhil/PhD; supervision available; *science studies unit: hist and contemp sociol of scientific knowledge:* sp emphasis on 19th- and early 20th-cent Britain (eg Mechanics' Insts and other 'popular' education, provincial societies, phrenology and brain anatomy, eugenics, science and women's social role, early notions of mental illness, scientific naturalism and notions of natural order and rationality, controversies over taxonomy, professionalisation of ecology, holism in biol, disputes in evolutionary theory, development of nutrition science), mod physical sciences (eg radio and x-ray astronomy, high energy physics, 'deviant' quantum theories); *sociol of technology:* development of adv information technology, numerically-controlled machine tools and robots in 3rd World countries (inc field trips). **Contact** Dr DO Edge
44:5 **Glasgow,** *Science education,* MSc/PhD
44:6 **Lancaster,** *Independent studies,* MPhil/PhD
44:7 **London (Imperial),** *Social and economic studies,* MPhil/PhD
44:8 **Loughborough,** *Design and technology,* MPhil/PhD
44:9 **Manchester,** *Science and technology policy,* MSc/PhD
44:10 **Manchester Poly,** *Advanced studies,* MPhil/PhD (CNAA)
44:11 **Mid-Kent CH & FE,** *Science,* MPhil/PhD (CNAA)
44:12 **NE London Poly,** *Independent study,* MPhil/PhD (CNAA)
44:13 **Open,** *Alternative technology,* BPhil/MPhil/PhD
44:14 **Open,** *Configurational studies,* BPhil/MPhil/PhD
44:15 **Open,** *Design,* BPhil/MPhil/PhD
44:16 **Poly of Wales,** *Science,* MPhil/PhD (CNAA)
44:17 **Salford,** *Impact assessment,* MSc/PhD
44:18 **Stirling,** *Technological economics,* MSc/PhD
44:19 **Strathclyde,** *Energy studies,* MSc/PhD
44:20 **Surrey,** *Energy economics,* MPhil/PhD
44:21 **Sussex,** *Logic and scientific method,* MPhil/DPhil
44:22 **Sussex,** *Science and technology policy,* MPhil/DPhil; supervision available for research in Science Policy Research Unit; staff interests inc: *innovation:* technical change and competitiveness in automobile, machine tool and process plant industries; *energy:* problems of energy policy in relation to econ and technological change; *developing countries:* technology policy research esp energy policy for developing countries; *govt technology policy:* industrial innovation, measurement of inputs and outputs of research and development; *corporate strategy and management of innovation:* innovation and design in manufacturing industry; *military technology and arms limitation:* military technology and arms limitation, disarmament and development; *science policy and evaluation research:* policy analysis of basic research, evaluation of govt policies for science and technology; *new technology and skill reqs:* changing technology and skill implications in industry; *technology and social change:* social indicators, social forecasting. **Contact** Sally Marjoram
44:23 **Sussex,** *Social implication of technical change,* MPhil/DPhil
44:24 **Wales (UWIST),** *Management, engineering production and economics,* MA/MScEcon/PhD
44:25 **Warwick,** *Science education,* MA/MSc/PhD
44:26 **West London IHE,** *Physical education and sciences,* MPhil (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

44 27 Christ Church C (Canterbury), *Science and mathematics for primary and middle years of schooling,* MA/Diploma (Kent)
44 28 City, *Industrial and administrative sciences,* MSc/Diploma
44 29 Glasgow, *Science and science education,* MSc
44 30 Lancaster, *Science, technology and international affairs,* MA
44 31 Liverpool IHE, *Science education,* MEd (Liverpool)
44 32 London (Imperial), *Social and economic aspects of science and technology in industry,* MSc/DIC
44 33 London (Imperial), *Technology and development,* MSc/DIC
44 34 [illegible]
44 35 [illegible]
44 36 [illegible]
44 37 [illegible]
44 38 [illegible]
44 39 [illegible]
44 40 [illegible]
44 41 [illegible] 2 yrs [illegible] e deg considered), interdisciplinary course designed to integrate scientific and technological activities with econ, social and political objectives, *course content* intro courses on technological econ political econ of industrial change, surveys of global econ and political trends and sociol of innovating organisations, choice from social origins of scientific knowledge manufacturing strategy, management of technology nuclear power in Britain govt policy for information [illegible]
44 42 [illegible]
44 43 [illegible]
44 44 [illegible] education on broad front *course content* science education, education and development with ref to science education education studies in science and maths exam dissertation Contact Miss A McCord, Assistant Registrar & Secretary
44 45 Salford, *Modular studies,* MA/MSc
44 46 Salford, *Technology and society,* MSc
44 47 Sheffield City Poly, *Science education,* MSc/Diploma
44 48 Stirling, *Technological economics,* MSc/Diploma
44 49 Surrey, *Energy economics,* MSc
44 50 Surrey, *Practice of science education,* MSc/Diploma
44 51 [illegible]
44 52 [illegible]
44 53 [illegible]
44 54 [illegible]

Certificates and diplomas

44:55 **Brunel,** *Petroleum technology and management systems,* Diploma
44:56 **Christ Church C (Canterbury),** *Science education,* Diploma (ASE)
44:57 **Cornwall CF & HE,** *Science education for teachers in primary schools,* Diploma (ASE)
44:58 **Crewe and Alsager CHE,** *Science education,* Diploma
44:59 **Liverpool IHE,** *Science education,* Diploma
44:60 **London (Inst Ed),** *Primary science education,* Diploma
44:61 **London (KQC),** *Science or mathematics education for overseas students,* Diploma
44:62 **New C (Durham),** *Teaching primary science,* Diploma (Durham)
44:63 **NE Wales IHE,** *Science in the primary school,* Diploma
44:64 **Roehampton IHE,** *Practice of science education,* Diploma
44:65 **St Mark & St John C (Plymouth),** *Science education for teachers in primary schools,* Diploma
44:66 **St Mary's C (Strawberry Hill),** *Primary science,* Diploma (Surrey)
44:67 **Surrey,** *Economics of energy and development,* Diploma
44:68 **Warwick,** *Industry and education,* Diploma
44:69 **Warwick,** *Science education,* Diploma

45 Social sciences: applied

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

45 1 **Aberdeen,** *Social work,* MLitt/PhD
45 2 **Bath,** *Social administration and social work,* MPhil/PhD
45 3 **Bath,** *Sociology and social administration,* MPhil/PhD
45 4 **Birmingham,** *Social administration,* MSocSc/MPhil/PhD
45 5 [illegible]
45 6 [illegible]
45 7 [illegible]
45 8 [illegible]
45 9 [illegible]
5 10 [illegible]
5 11 [illegible]
5 12 [illegible]
5 13 **Glasgow,** *Social administration and social work,* MLitt/PhD
5 14 [illegible]
5 15 [illegible]
5 16 [illegible]
5 17 [illegible]
5 18 **Lancaster,** *Social administration* MPhil/PhD
5 19 **Leeds,** *Adult and continuing education,* MPhil/PhD
5 20 **Leeds,** *Social policy and health services studies,* MPhil/PhD
5 21 **Leicester,** *Social work,* MA/MPhil/PhD
5 22 [illegible]
5 23 [illegible]
5 24 [illegible]
5 25 [illegible]
5 26 [illegible]
5 27 [illegible]
5 28 [illegible]
5 29 [illegible]
5 30 **Nottingham,** *Social administration and social work* MPhil/PhD *See page 224*
5 31 **Plymouth Poly,** *Social and political studies,* MPhil/PhD (CNAA)
5 32 **Plymouth Poly,** *Social work health and community studies* MPhil/PhD (CNAA) supervision available for research interests cover all aspects of personal social services recent studies inc care of elderly homelessness treatment of juvenile offenders handicapped children community development in rural areas Contact Academic Registrar
5 33 **Poly of Central London,** *Sociology and applied social studies,* MPhil/PhD (CNAA)
5 34 [illegible]
5 35 [illegible]
5 36 [illegible]
5 37 [illegible]
5 38 [illegible]
5 39 [illegible]
5 40 **Wales (Bangor),** *Sociology and social administration* MA/PhD

45:41 **Wales (Cardiff),** *Social administration and social work,* MScEcon/PhD
45:42 **Warwick,** *Applied social studies,* MA/MPhil/PhD
45:43 **York,** *Social policy and social work,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

45:44 **Bath,** *Applied social studies,* MSc/Diploma
45:45 **Birmingham,** *Mental disorder studies,* MSocSc/Diploma
45:46 **Birmingham,** *Social administration,* MSocSc
45:47 **Birmingham,** *Social policy and politics in Western industrial societies,* MSocSc
45:48 **Birmingham,** *Social services management,* MSocSc
45:49 **Birmingham,** *Social work,* MSocSc/Diploma
45:50 **Bradford,** *Social and community work studies,* MA
45:51 **Bristol,** *Social services planning,* MSc
45:52 **Brunel,** *Public and social administration,* MA/Diploma *See page 223*
45:53 **East Anglia,** *Social work,* MA
45:54 **East Anglia,** *Social work,* MSW
45:55 **Edinburgh,** *Applied social work studies,* MSc/Diploma
45:56 **Edinburgh,** *Social and public policy,* MSc/Diploma
45:57 **Essex,** *Social service planning,* MA/Diploma
45:58 **Exeter,** *Social work,* BPhil/Diploma
45:59 **Hull,** *Applied social studies,* MA/Diploma
45:60 **Hull,** *Social work studies,* MA *See page 225*
45:61 **Kent,** *Applied psychology of mental handicap services,* MA
45:62 **Kent,** *Social work,* MA/Diploma
45:63 **Lancaster,** *Social services management,* MSc
45:64 **Leicester,** *Social work,* MA, 2 yrs f-t (hons deg in any subj accepted); centres on application of concepts to situations; *key themes inc:* human development, assessment of motivation, social work with gps and families, social policies. Contact Registrar (Higher Degrees)
45:65 **Leicester Poly,** *Urban processes, problems and policies,* MA (CNAA)
45:66 **London (Goldsmiths'),** *Social policy and administration,* MA
45:67 **London (LSE),** *Social work studies,* MSc
45:68 **Manchester,** *Applied social research,* MA(Econ)/Diploma
45:69 **Manchester,** *Psychiatric social work,* MSc/Diploma
45:70 **Manchester,** *Social administration,* MA(Econ)
45:71 **Manchester,** *Social administration and social work,* MA(Econ)
45:72 **Newcastle,** *Social work,* MPhil
45:73 **Nottingham,** *Social policy and administration,* MA *See page 224*
45:74 **Nottingham,** *Social work,* MA *See page 224*
45:75 **Oxford,** *Applied social studies,* MSc
45:76 **Reading,** *Counselling and guidance,* MA, 3 yrs p-t (deg and recognised qual in counselling or substantial practical experience req); *course inc:* lectures, seminars and practical, project and gp work; assessment of coursework, written papers, project, agency report, extended research report. Contact Miss A McCord, Assistant Registrar & Secretary
45:77 **Roehampton IHE,** *Psychological counselling,* MSc (Surrey)
45:78 **Sheffield,** *Applied social studies,* MA/Diploma
45:79 **Southampton,** *Applied social studies,* MSc/Diploma
45:80 **Southampton,** *Social administration,* MSc(SocSc)/Diploma
45:81 **Southampton,** *Social work,* MPhil
45:82 **Stirling,** *Applied social research,* MSc
45:83 **Surrey,** *Applied social studies,* MSc/Diploma
45:84 **Sussex,** *Social work,* MSW

45 85 **Ulster,** *Applied social research*, MSc/Diploma Certificate
45 86 **Ulster,** *Guidance and counselling* MSc/Diploma
45 87 [illegible]
45 88 [illegible]
45 89 *page 224*
45 90 **Wales (Swansea),** *Social planning*, MSc(Econ)
45 91 **Wales (Swansea),** *Social sector planning and management*, MSc(Econ)
45 92 **Warwick,** *Applied social studies*, MA
45 93 **York,** *Social work*, MSW/Diploma

Certificates and diplomas

45 94 **Birmingham,** *Social services management* Diploma
45 95 **Birmingham Poly,** *Careers guidance*, Diploma
45 96 **Bretton Hall CHE,** *Guidance and counselling* Advanced Diploma
45 97 **Bristol,** *Applied social studies*, Certificate
45 98 **Bristol,** *Residential social work* Certificate
45 99 **Bristol,** *Social administration*, Diploma
45 100 **Bristol Poly,** *Careers guidance*, Diploma
45 101 **Brunel,** *Youth and community studies*, Diploma
45 102 **Christ Church C (Canterbury),** *Youth and community work*, Certificate
45 103 **Croydon C,** *Applied social studies* Diploma
45 104 **East Anglia,** *Social welfare* Diploma
45 105 **Edinburgh,** *Social work*, Diploma
45 106 **Glasgow,** *Social work*, Diploma
45 107 **Gwent CHE (Newport),** *Counselling and pastoral care*, Diploma
45 108 **Hatfield Poly,** *Careers education and guidance*, Diploma (CNAA)
45 109 **Hatfield Poly,** *Counselling*, Diploma (CNAA)
45 110 **Kent,** *Alcohol counselling and consultation* Diploma
45 111 **Lancashire Poly,** *Applied social studies* Diploma
45 112 **Lancaster,** *Social work*, Diploma
45 113 **Leeds,** *Applied social studies*, Diploma
45 114 **Leeds Poly,** *Social work*, Diploma
45 115 **Liverpool,** *Applied social studies* Diploma
45 116 **Liverpool,** *Social administration* Diploma
45 117 **Liverpool Poly,** *Applied social studies* Diploma
45 118 [illegible]
45 119 [illegible]
45 120 [illegible]
45 121 **Manchester,** *Social administration*, Diploma
45 122 **Manchester,** *Social administration and social work*, Diploma
45 123 **Manchester Poly,** *Social work*, Diploma (CNAA)
45 124 **Manchester Poly,** *Youth and community work*, Diploma
45 125 [illegible]
45 126 [illegible]

45 127 **Newcastle,** *Social work*, Diploma
45 128 **Newcastle Poly,** *Careers guidance*, Diploma
45 129 **NE London Poly,** *Careers guidance* Diploma
45 130 **NE London Poly,** *Counselling and guidance* Diploma (CNAA)
45 131 **NE London Poly,** *Counselling and pastoral care with special reference to schools*, Diploma (CNAA)

45:132 **Oxford,** *Social administration,* Diploma
45:133 **Oxford,** *Social studies,* Diploma
45:134 **Paisley CT,** *Alcohol studies,* Diploma/Certificate
45:135 **Paisley CT,** *Careers guidance,* Diploma
45:136 **Poly of Wales,** *Careers guidance,* Diploma
45:137 **Reading,** *Counselling and guidance,* Diploma, 1 yr f-t (deg or approved alternative qual an 2 yrs' teaching or other relevant experience req); designed for those intending to work in cou ing, guidance or pastoral care in education and other settings in which counselling and commu tion skills of prime importance. **Contact** Miss A McCord, Assistant Registrar & Secretary
45:138 **Reading,** *Vocational guidance,* Certificate, 1 yr f-t (deg or other approved qual req); practic theoretical background to careers and education guidance; further information available School of Education. **Contact** Miss A McCord, Assistant Registrar & Secretary
45:139 **South Bank Poly,** *Applied social studies,* Diploma (CNAA)
45:140 **Stirling,** *Social work,* Diploma
45:141 **Strathclyde,** *Careers guidance,* Diploma
45:142 **Surrey,** *Practice of social welfare in mental health,* Certificate
45:143 **Thames Poly,** *Youth and community work,* Diploma
45:144 **Trent Poly,** *Applied social studies,* Diploma
45:145 **Ulster,** *Addiction studies,* Diploma
45:146 **Ulster,** *Social work,* Diploma
45:147 **Wales (Cardiff),** *Social work,* Diploma *See page 224*
45:148 **Wales (Swansea),** *Applied social studies,* Diploma
45:149 **Wales (Swansea),** *Social policy and administration,* Diploma
45:150 **West London IHE,** *Applied social studies,* Diploma
45:151 **York,** *Social administration,* Diploma

Brunel

THE UNIVERSITY OF WEST LONDON

FACULTY OF SOCIAL SCIENCES

The Faculty offers the following taught Masters courses
*(*2 years part-time, one day per week # 1 year full time)*

MA in Public and Social Administration* #
Department of Government

Core courses in theories and methods and social policy and administration plus one special subject from history of social policy education health services housing personal social services social security the voluntary sector community and race relations Dissertation

MA in Socio–Legal Studies* #
Departments of Law and Human Sciences

Core courses in socio–legal studies plus two options chosen from courses in law and sociology Dissertation

MA in Industrial Relations*
Department of Human Sciences

Courses in industrial relations industrial sociology organisational behaviour labour law Dissertation

MSc in Intelligent Systems* #
Department of Human Sciences and Faculty of Technology

Courses in simulation and modelling brain systems cognitive psychology science of mind natural adaptive systems automated reasoning expert systems natural and artificial vision programming PASCAL LISP PROLOG Dissertation

MA in Public Policy* #
Departments of Economics and Government

Core courses in analytical method and public policy analysis plus one special subject from a particular policy area eg health economics industrial policy social security educational policy local government studies Dissertation

Entry Qualifications

Courses are open to graduates and to those with relevant experience and professional qualifications ESRC awards may be available In certain circumstances students lacking formal qualifications may be admitted to study for a Graduate or Postgraduate Diploma Applications are welcomed from both developed and developing countries

The Faculty also offers research programmes, part time or full time leading to the award of *MPhil, LLM, or PhD*

Students may follow a one-year full time two year part time taught core course in methods and methodology together with specialised seminar programmes in their chosen area of research, before commencing their thesis.

Supervision is offered in a wide range of topics in the Social Sciences including development economics, health economics, social policy, political systems and theory communication and information studies, science, technology and society cognition perception psychology of health and illness, welfare law, housing law consumer law regulation legal history the criminal justice system, socio–legal studies

Bursaries for full time study may be available from the Faculty

For further particulars please write to

The Faculty Officer (Social Sciences), Ref CRAC
Brunel University, Uxbridge
Middlesex UB8 3PH
Tel Uxbridge 56461 Telex 261173G

UNIVERSITY COLLEGE CARDIFF

School of Social Work

Postgraduate Diploma in Social Work

The course prepares graduates without extensive social science degrees for social work in a variety of work settings probation generic social work, community work residential social work medical social work Previous voluntary work or social work experience is advantageous Some places are available for mature non-graduate students Pre entry English language courses are available in the College

Course content	Social work methods social policy psychology, human socialisation sociology social philosophy, three practice placements
Awards	Diploma in Social Work and Certificate of Qualification in Social Work
Length	22 months October (Year 1) to July (Year 2)

Enquiries to Admissions Tutor Mr D Fowler Quote reference DSW/1

MSc (Econ) in Applied Social Studies

This course is an advanced course for experienced social workers It prepares social workers for senior posts in social work agencies or teaching posts

Core courses	Issues and methods in social work social policy research
Options	Administration residential social work research methods social work education
Assessment	Course essays and dissertation
Length	13 months (October – October)
Awards	MSc (Econ) Recognised as a post-qualifying course by Central Training Council for Social Work

Enquiries to Course Tutor Miss R Jefferson Quote reference ASS/1

NOTTINGHAM UNIVERSITY

Department of Social Administration & Social Work

Social administration and social work, MPhil/PhD supervision available, areas of particular interest include welfare rights in social policy, criminology, women's studies health admin, 3rd World social policy, and most other areas of social policy

Social policy and administration, MA, 1c yr f-t 2 yrs p-t designed for those who wish to undertake p-g work in social admin but not by research of particular interest to those employed in depts of c and local govt concerned with social welfare and social services, *course content.* social policy and admin, 2 options from list inc criminology, health admin, education, women in welfare, and dissertation

Social work, MA, 1 or 2 yrs f-t (according to quals, relevant work experience desired), common base approach, teaching based around common skills and issues working with children, with offenders functioning of courts work with individuals gps, families, marriages and communities, 2-yr course also inc psychol, social admin, sociol, assessment essays, fieldwork projects field placements and dissertation

In each case enquiries etc to **Prof A J Willcocks, Dept of Social Administration & Social Work, Nottingham University, Nottingham NG7 2RD.**

SOCIAL STUDIES AT EXETER

Applications are invited for entry to the following postgraduate programmes:

- **MA in the Economics of Finance and Investment**
- **MA in the Economics of the European Community**
- **MA in Politics with Special Reference to the Middle East**
- **MA in Population Research**
- **MA in Western European Social Studies**

- **MPhil/PhD** by research
  The Faculty of Social Studies offers supervision in a wide range of fields within the following subject areas:

— ECONOMIC HISTORY
— ECONOMICS (including Accountancy and Agricultural Economics)
— POLITICS
— PSYCHOLOGY (the Diploma in Science Studies for Overseas Students is offered as a preparation for research)
— SOCIOLOGY (including Social Work and Socio-Legal Studies)



For further information, and an application form, contact:
Ms Austin (Assistant Registrar), University of Exeter, Northcote House, The Queen's Drive, Exeter EX4 4QJ Tel (0392) 263044

46 Social sciences: general

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

46:1 **Belfast,** *Social studies,* MSSc/PhD
46:2 **Bradford,** *Social sciences,* MPhil/PhD
46:3 **Bristol Poly,** *Economics and social science,* MPhil/PhD (CNAA)
46:4 **Cambridge,** *Social and political sciences,* MSc/PhD
46:5 **Dorset IHE (Poole),** *Nursing and social service,* MPhil/PhD (CNAA)
46:6 **Durham,** *Sociology and social policy,* MA/MPhil/PhD
46:7 **Edinburgh,** *Social sciences,* PhD
46:8 **Glasgow,** *Social and economic research,* MLitt/PhD
46:9 **Hatfield Poly,** *Business and social studies,* MPhil/PhD (CNAA)
46:10 **Kent,** *Social policy and administration,* MPhil/PhD
46:11 **Kent,** *Social sciences (interdisciplinary studies),* MPhil/PhD
46:12 **Liverpool Poly,** *Social studies,* MPhil/PhD (CNAA)
46:13 **London (RHBC),** *Social policy and social science,* MPhil/PhD
46:14 **Loughborough,** *Social sciences,* MPhil/PhD
46:15 **Manchester,** *Multidisciplinary studies in the social sciences,* PhD
46:16 **Manchester Poly,** *Social science,* MPhil/PhD (CNAA)
46:17 **Napier C (Edinburgh),** *Professional studies,* MPhil/PhD (CNAA)
46:18 **Newcastle,** *Social studies,* MA/PhD
46:19 **Open,** *Social policy,* BPhil/MPhil/PhD
46:20 **Paisley CT,** *Social studies,* MPhil/PhD (CNAA)
46:21 **Plymouth Poly,** *Social and political studies,* MPhil/PhD (CNAA); supervision available for research in many areas of sociol, social administration and political science, esp industrial and organisational studies, women's studies, social mobility, policing, comparative welfare, electoral behaviour and European federalism. Contact Academic Registrar
46:22 **Portsmouth Poly,** *Social studies,* MPhil/PhD (CNAA)
46:23 **Southampton,** *Sociology and social administration,* MPhil/PhD
46:24 **South Bank Poly,** *Social studies,* MPhil/PhD (CNAA); supervision available for research, recent projects inc: radicalism and feminism in 19th-cent England; post-Russell adult education provision; position of women in USSR; police practices; professional authority of town planner; political programmes directed at French peasant; ROSLA programme in 2 schools; kinship and friendship in networks of W Indians in S London; educational and career choice for girls; leisure and social control; referral systems for maladjusted children; transition from school to work; uptake of legal facilities in local law and Citizens Advice Bureaux; political structure of Chilean insts; women and employment; trade unions and the state; politics of contraception; alcoholism; NHS admin; health care in community; disabled and employment; media studies. Contact Dr M David, Head of Department
46:25 **Sunderland Poly,** *Social sciences,* MPhil/PhD (CNAA)
46:26 **Sussex,** *Social and political thought,* MPhil/DPhil
46:27 **Teesside Poly,** *Administrative and social studies,* MPhil/PhD (CNAA)
46:28 **Trent Poly,** *Social studies,* MPhil/PhD (CNAA)
46:29 **Wolverhampton Poly,** *Economics and social studies,* MPhil/PhD (CNAA)
46:30 **Worcester CHE,** *Social sciences,* MPhil/PhD (CNAA)
46:31 **York,** *Social policy and social work,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research pr... (normally lasting three months) with submission of a written report, dissertation or thesis is normal... a part of these courses

46 32 City, *Survey methods*, MSc/Diploma
46 33 Cranfield, *Policy studies in social order* MSc
46 34 Essex, *History and philosophy of social and political science*, MA
46 35 Kent, *Social research*, MA
46 36 London (LSE), *Social policy and planning* MSc
46 37 London (LSE), *Social policy and social work studies* MSc
46 38 London (RHBC), *Social work* MSc
46 39 Middlesex Poly, *Deviancy and social policy*, MA/Diploma (CNAA)
46 40 Open, *Advanced educational and social research methods* MSc
46 41 Oxford, *Social research and social policy* MSc
46 42 Poly of North London, *Sociology and social policy* MA (CNAA)
46 43 Surrey, *Social research*, MSc/Diploma
46 44 Surrey, *Social research methods* MSc/Diploma
46 45 Sussex, *Social and political thought*, MA
46 46 Teesside Poly, *Social research*, MSc (CNAA)
46 47 York, *Social policy*, MA *See page 228*

Certificates and diplomas

46 48 Belfast, *Social studies*, Diploma
46 49 Birmingham, *Social sciences*, Diploma
46 50 City of London Poly, *Social policy*, Diploma
46 51 Glasgow, *Russian languages for social scientists*, Certificate
46 52 Hull, *Social studies*, Certificate
46 53 Hull, *Social studies*, Diploma

Social policy — UNIVERSITY OF YORK

Degree MA

Length of course 1 calendar year full-time.

Description of course Intended for post-qualification or post-experience work, often taken by students on secondment from senior posts in social work, adult education, etc; *course content:* 3 assessable or examinable courses: social policy and administration, sociology, methods of social investigation; options may be permitted; *2-term options:* crime and penal system; working with organisations, housing and urban planning, justice and the state, comparative social policy; plus dissertation.

Head of department Professor K Jones

Applications and enquiries Miss A Holdsworth, Social Policy and Social Work, University of York, Heslington, York YO1 5DD.

47 Sociology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study' paragraphs in the introductory Postgraduate studies' section

47.1 **Aberdeen,** *Sociology,* MLitt/PhD
47 2 **Bath,** *Sociology and social administration,* MPhil/PhD
47 3 **Birmingham,** *Sociology,* MSocSc/MPhil/PhD
47 4 **Birmingham Poly,** *Sociology and applied social studies,* MPhil/PhD (CNAA)
47 5 [illegible]
47 6 [illegible]
47.7 [illegible]
47 8 [illegible]
47 9 [illegible]
47 10 [illegible]
47.11 **Durham,** *Sociology and social policy,* MA/MPhil/PhD, supervision available, sp interests sociol theory and phil of social science, social policy inc sociol of social policy, sociol of work and industry, sociol of the state and social movements, work applying and developing particular theoretical and [illegible]
47.12 [illegible]
47 13 [illegible]
47.14 [illegible]
47.15 **Exeter,** *Sociology,* MPhil/PhD
47.16 **Glasgow,** *Sociology,* MLitt/PhD
47.17 **Hull,** *Sociology and social anthropology,* MPhil/PhD *See page 233*
47.18 **Keele,** *Sociology and social anthropology,* MA/PhD
47.19 [illegible]
47.20 [illegible]
47 21 [illegible] techniques in social research, sexual divisions, knowledge and science Contact Graduate Admissions Tutor
47.22 **Leicester,** *Sociology,* MPhil/PhD
47.23 [illegible]
47 24 [illegible]
47 25 [illegible]
47 26 [illegible]
47.27 [illegible]
47.28 [illegible]
47.29 **Manchester,** *Sociology,* MA(Econ)/PhD, supervision available for research, present major fields of interest sociol of education, urban sociol, sociol of developing countries (esp Latin America, Middle E, SE Asia), sociol of interpersonal relations, industrial sociol, adv socialist societies,

theory, the family, women's studies, ethnographic studies. **Contact** Dr DHJ Morgan

47:30 **Newcastle,** *Social studies,* MA/PhD
47:31 **NE London Poly,** *Sociology,* MPhil/PhD (CNAA)
47:32 **N Staffs Poly,** *Sociology,* MPhil/PhD (CNAA)
47:33 **Nottingham,** *Sociology,* MPhil/PhD
47:34 **Open,** *Sociology,* BPhil/MPhil/PhD
47:35 **Oxford,** *Race relations,* MLitt/DPhil
47:36 **Oxford,** *Socio-legal studies,* MLitt/DPhil
47:37 **Oxford,** *Sociology,* MLitt/DPhil
47:38 **Plymouth Poly,** *Social and political studies,* MPhil/PhD (CNAA)
47:39 **Poly of Central London,** *Sociology and applied social studies,* MPhil/PhD (CNAA)
47:40 **Poly of North London,** *Sociology,* MPhil/PhD (CNAA)
47:41 **Reading,** *Sociology,* MPhil/PhD
47:42 **Salford,** *Sociology and anthropology,* MA/MSc/PhD
47:43 **Sheffield,** *Sociological studies,* MPhil/PhD
47:44 **Southampton,** *Sociology and social administration,* MPhil/PhD; supervision available, recent staff research interests inc: sociol of industry and business organisation inc work and influence of Elton Mayo, effects of intro of new technologies on work and organisation, technology and class structure, business organisation and ideologies; theory and development of social policy inc comparative social policy esp relating to USA and W Germany; medical sociol inc informal social networks of psychiatric patients and ways in which social relationships may change as result of psychiatric illness; English intelligentsia since 1832, patterns of hist change, distinctiveness of European states; sociol of family and friendship, ways in which family and domestic life is shaped by wider social factors, roles of informal relationships in integrating individual into society; penal and health policy inc protection of people in various forms of public care, private medicine in UK, mothers' attitudes to health visitors; rural sociol: family farming and agricultural policies in terms of Max Weber's theory of social change. **Contact** Dr J Hall
47:45 **Stirling,** *Sociology,* MSc/PhD; supervision available in interdisciplinary research in sociol, social anthropology, social admin and social work, esp comparative social research, industrial relations and applied social research; current applied research concentrated in: family violence, job creation and unemployment, health and social services for elderly, development and delivery of child care services, organisation and effectiveness of state and voluntary welfare services, ethnic relations, trade union leadership, profit sharing, comparative emphasis involving different countries in EC, Scandinavia and N America; other current comparative research primarily in field of sociol of development with fieldwork concentrated in Japan, Kenya, Tanzania, Algeria and Middle E. **Contact** Professor DWG Timms
47:46 **Strathclyde,** *Sociology,* MPhil/PhD
47:47 **Surrey,** *Sociology,* MPhil/PhD
47:48 **Sussex,** *Sociological studies,* MPhil/DPhil
47:49 **Teesside Poly,** *Sociology,* MPhil/PhD (CNAA)
47:50 **Thames Poly,** *Sociology,* MPhil/PhD (CNAA)
47:51 **Ulster,** *Sociology and social anthropology,* MPhil/DPhil
47:52 **Wales (Aberystwyth),** *Sociology,* MSc(Econ)/PhD
47:53 **Wales (Bangor),** *Sociology and social administration,* MA/PhD
47:54 **Wales (Cardiff),** *Sociology,* MScEcon/PhD
47:55 **Wales (Swansea),** *Sociology and anthropology,* MSc(Econ)/PhD
47:56 **Warwick,** *Sociology,* MPhil/PhD
47:57 **York,** *Communication studies,* MPhil/DPhil
47:58 **York,** *Sociology,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

47:59 **Birmingham,** *Race and education,* MSocSc
47:60 **Birmingham,** *Socio-legal studies,* MSocSc

47.61 **Birmingham**, *Sociology*, MSocSc
47.62 **Bradford**, *Race relations and community studies*, MSc/Diploma
47.63 **Bradford**, *Women's studies (applied)*, MA/Diploma
47.64 **Bristol**, *Race relations*, MSc
47.65 **Brunel**, *Sociology and law*, MA/Diploma
47.66 **Durham**, *Sociology of social policy*, MA
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47.75 **Hull**, *Sociology of developing societies*, [illegible]
47.76 **Kent**, *Sociology*, MA
47.77 **Kent**, *Women's studies*, MA/Diploma
47.78 [illegible] of social [illegible] ions inc [illegible] ontemp [illegible] l social, [illegible] veryday [illegible] l essays,
47.79 [illegible]
47.80 [illegible]
47.81 **Leeds**, *Political sociology of development*, MA
47.82 [illegible]
47.83 [illegible]
47.84 [illegible]
47.85 [illegible]
47.86 [illegible]
47.87 [illegible]
47.88 [illegible]
47.89 [illegible]
47.90 [illegible]
47.91 [illegible]
47.92 [illegible]
47.93 [illegible]
47.94 [illegible]
47.95 **Poly of North London**, *Sociology and social policy*, MA (CNAA)
47.96 **Salford**, *Society and culture*, MA
47.97 **Salford**, *Sociology*, MSc
47.98 [illegible] MA
47.99 [illegible]
47.100 [illegible]
47.101 [illegible]

theory, the family, women's studies, ethnographic studies. Contact Dr DHJ Morgan

47:30 Newcastle, *Social studies*, MA/PhD

47:31 NE London Poly, *Sociology*, MPhil/PhD (CNAA)

47:32 N Staffs Poly, *Sociology*, MPhil/PhD (CNAA)

47:33 Nottingham, *Sociology*, MPhil/PhD

47:34 Open, *Sociology*, BPhil/MPhil/PhD

47:35 Oxford, *Race relations*, MLitt/DPhil

47:36 Oxford, *Socio-legal studies*, MLitt/DPhil

47:37 Oxford, *Sociology*, MLitt/DPhil

47:38 Plymouth Poly, *Social and political studies*, MPhil/PhD (CNAA)

47:39 Poly of Central London, *Sociology and applied social studies*, MPhil/PhD (CNAA)

47:40 Poly of North London, *Sociology*, MPhil/PhD (CNAA)

47:41 Reading, *Sociology*, MPhil/PhD

47:42 Salford, *Sociology and anthropology*, MA/MSc/PhD

47:43 Sheffield, *Sociological studies*, MPhil/PhD

47:44 Southampton, *Sociology and social administration*, MPhil/PhD; supervision available, recent staff research interests inc: sociol of industry and business organisation inc work and influence of Elton Mayo, effects of intro of new technologies on work and organisation, technology and class structure, business organisation and ideologies; theory and development of social policy inc comparative social policy esp relating to USA and W Germany; medical sociol inc informal social networks of psychiatric patients and ways in which social relationships may change as result of psychiatric illness; English intelligentsia since 1832, patterns of hist change, distinctiveness of European states; sociol of family and friendship, ways in which family and domestic life is shaped by wider social factors, roles of informal relationships in integrating individual into society; penal and health policy inc protection of people in various forms of public care, private medicine in UK, mothers' attitudes to health visitors; rural sociol: family farming and agricultural policies in terms of Max Weber's theory of social change. Contact Dr J Hall

47:45 Stirling, *Sociology*, MSc/PhD; supervision available in interdisciplinary research in sociol, social anthropology, social admin and social work, esp comparative social research, industrial relations and applied social research; current applied research concentrated in: family violence, job creation and unemployment, health and social services for elderly, development and delivery of child care services, organisation and effectiveness of state and voluntary welfare services, ethnic relations, trade union leadership, profit sharing, comparative emphasis involving different countries in EC, Scandinavia and N America; other current comparative research primarily in field of sociol of development with fieldwork concentrated in Japan, Kenya, Tanzania, Algeria and Middle E. Contact Professor DWG Timms

47:46 Strathclyde, *Sociology*, MPhil/PhD

47:47 Surrey, *Sociology*, MPhil/PhD

47:48 Sussex, *Sociological studies*, MPhil/DPhil

47:49 Teesside Poly, *Sociology*, MPhil/PhD (CNAA)

47:50 Thames Poly, *Sociology*, MPhil/PhD (CNAA)

47:51 Ulster, *Sociology and social anthropology*, MPhil/DPhil

47:52 Wales (Aberystwyth), *Sociology*, MSc(Econ)/PhD

47:53 Wales (Bangor), *Sociology and social administration*, MA/PhD

47:54 Wales (Cardiff), *Sociology*, MScEcon/PhD

47:55 Wales (Swansea), *Sociology and anthropology*, MSc(Econ)/PhD

47:56 Warwick, *Sociology*, MPhil/PhD

47:57 York, *Communication studies*, MPhil/DPhil

47:58 York, *Sociology*, MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

47:59 Birmingham, *Race and education*, MSocSc

47:60 Birmingham, *Socio-legal studies*, MSocSc

47 61 **Birmingham,** *Sociology* MSocSc
47 62 **Bradford,** *Race relations and community studies*, MSc/Diploma
47 63 **Bradford,** *Women's studies (applied)*, MA/Diploma
47 64 **Bristol,** *Race relations*, MSc
47 65 [illegible]
47 66 [illegible]
47 67 [illegible]
47 68 **Essex,** *Sociology*, MA/Diploma
47 69 **Essex,** *Sociology of development*, MA/Diploma
47 70 **Essex,** *Sociology of development (planning and policy)* MA/Diploma
47 71 **Essex,** *Sociology of development (urbanisation)*, MA/Diploma
47 72 **Essex,** *Sociology of gender divisions*, MA/Diploma
47 73 **Essex,** *Sociology of Latin America*, MA/Diploma
47 74 **Essex,** *Sociology of literature*, MA
47 75 **Hull,** *Sociology of developing societies*, MA *See page 233*
47 76 **Kent,** *Sociology*, MA
47 77 **Kent,** *Women's studies*, MA/Diploma
47 78 [illegible]

dissertation Contact Professor John Urry
47 79 **Lancaster,** *Sociology of religion*, MA
47 80 **Leeds,** *Political sociology*, MA
47 81 **Leeds,** *Political sociology of development* MA
47 82 **Leeds,** *Sociology*, MA, 1c yr f t 2c yrs p t, *course content* adv sociol theory, adv methods of social research 2 options from range inc sociol of education culture politics industry race relations, sexual divisions in society exam and dissertation Contact Graduate Admissions Tutor
47 83 **Leicester,** *Sociology of education* MA(Ed)
47 84 **Liverpool,** *Ethnic studies and race relations*, MA
47 85 **London (Birkbeck),** *Sociology with politics*, MSc *See page 233*
47 86 [illegible]
47 87 [illegible]
47 88 [illegible]
47 89 [illegible]
47 90 [illegible]
47 91 [illegible]
47 92 [illegible]
47 93 [illegible]
47 94 **Oxford,** *Sociology*, MPhil
47 95 **Poly of North London,** *Sociology and social policy*, MA (CNAA)
47 96 **Salford,** *Society and culture*, MA
47 97 **Salford,** *Sociology*, MSc
47 98 **Sheffield,** *Socio legal studies*, MA
47 99 **Sheffield City Poly,** *Women's studies*, MA (CNAA)
47 100 **Sheffield City Poly,** *Sociology (community studies)*, MA (CNAA)
47 101 **South Bank Poly,** *Sociology*, MSc 2 yrs p-t specialisation [illegible] illness *stem course* theoretical perspectives (adv [illegible] knowledge) research methodology (stressing [illegible] problems seminar (integrates substantive areas of [illegible] stem course and explores problems arising from [illegible] *of education* educational systems and ed[illegible] tion educational policy, educational career [illegible] *health and illness* social structures and [illegible] construction of disability medicine [illegible]

health care, sociol of NHS; dissertation. Contact Dr M David, Head of Department

47:102 **Strathclyde,** *Sociology of development and human resources,* MSc
47:103 **Sussex,** *Sociology,* MA
47:104 **Sussex,** *Women and education,* MA
47:105 **Warwick,** *Comparative labour studies,* MA/Diploma
47:106 **Warwick,** *Sociological research in health care,* MA/Diploma
47:107 **Warwick,** *Sociology of education,* MA/Diploma
47:108 **Warwick,** *Sociology of labour,* MA/Diploma
47:109 **Warwick,** *Women's studies,* MA
47:110 **West Midlands CHE (Walsall),** *Social change and social education,* MEd (CNAA)
47:111 **York,** *Sociology of contemporary culture,* MA
47:112 **York,** *Women's studies,* MA

Certificates and diplomas

47:113 **Belfast,** *Sociology,* Diploma
47:114 **Birmingham,** *Socio-legal studies,* Diploma
47:115 **Bristol,** *Social sciences (sociology),* Diploma
47:116 **Bristol,** *Sociology,* Diploma
47:117 **East Anglia,** *Social institutions of industrial societies,* Diploma
47:118 **East Anglia,** *Sociology,* Diploma
47:119 **Essex,** *Sociology,* Certificate
47:120 **Glasgow,** *Sociology,* Diploma
47:121 **Kent,** *Sociology,* Diploma
47:122 **Lancaster,** *Race relations,* Diploma
47:123 **Lancaster,** *Social analysis,* Diploma
47:124 **London (Goldsmiths'),** *Women's studies in education,* Diploma
47:125 **London (Inst Ed),** *Human rights and education,* Diploma
47:126 **London (LSE),** *Sociology,* Diploma
47:127 **Manchester,** *Sociology,* Diploma
47:128 **Reading,** *General sociology,* Diploma
47:129 **Salford,** *Sociology,* Advanced Certificate
47:130 **Wales (Aberystwyth),** *Sociology,* Diploma
47:131 **West Midlands CHE (Walsall),** *Teaching in the multi-ethnic school,* Diploma (CNAA)

THE UNIVERSITY OF HULL

Sociology, Anthropology & Development Studies

MA. Sociology of Developing Societies One year full time (2 years part time) taught courses cover development issues, research methods and special topics in relation to the Middle East, Tropical Africa, South East Asia and Latin America

MPhil/PhD by Research
Students initially take a taught course in the planning and conduct of research, and subsequently participate in regular research workshops.

Subjects in which supervision is available currently include sociological/anthropological studies in developing areas, including the Middle East, Tropical Africa, South East Asia and parts of Latin America

Also available is supervision in industrial development, the sociology of education, the family war and peace, women s studies, social theory and political and social anthropology

Details from.
Dr Norman O'Neill, Department of Sociology & Social Anthropology University of Hull, Hull HU6 7RX, North Humberside, England

DEPARTMENT OF SOCIOLOGY: HIGHER DEGREES BY RESEARCH OR EXAMINATION

University of Reading

MPhil/PhD Supervision available over a wide range of subjects Major interests include INTERNAL SECURITY (Crime police terrorism public order) and BELIEF SYSTEMS (Ideology humour folklore)

MA The Department also offers courses leading to an MA in European Studies or an MA in International Studies within the Faculty s inter-disciplinary Graduate School Bureaucracy and Society in E Europe Comparative Criminology Europe and the Islamic World Mediterranean Peasant Societies Social Control in Comparative Perspective Socialism and Socialist Democracy in Europe Terrorism and Political Crime

Contact Dr K B Robertson
Department of Sociology University of Reading Whiteknights Reading RG6 2AA

BIRKBECK COLLEGE

University of London

DEPARTMENT OF POLITICS & SOCIOLOGY

MASTERS DEGREES in POLITICS & SOCIOLOGY, and POLITICS & ADMINISTRATION

One year full time two years part time All formal teaching takes place in the evenings Normally applicants will have a good first degree in a relevant subject or subjects

MSc Politics & Sociology
Compulsory courses in Political Theory and Political Sociology plus two options

MSc Politics & Administration
Compulsory courses in Modern British Politics and Policy and Administration plus two options

Options include American Politics and Society Western [illegible]

Applications as early in the year as possible to Admissions Officer Department of Politics & Sociology Birkbeck College Malet Street London WC1E 7HX Tel 01 631 6542

Course advertisements

Consult an institution's official prospectus before appl

Humanitt

health care, sociol of NHS; dissertation. **Contact** Dr M David, Head of Department

47:102 **Strathclyde,** *Sociology of development and human resources,* MSc
47:103 **Sussex,** *Sociology,* MA
47:104 **Sussex,** *Women and education,* MA
47:105 **Warwick,** *Comparative labour studies,* MA/Diploma
47:106 **Warwick,** *Sociological research in health care,* MA/Diploma
47:107 **Warwick,** *Sociology of education,* MA/Diploma
47:108 **Warwick,** *Sociology of labour,* MA/Diploma
47:109 **Warwick,** *Women's studies,* MA
47:110 **West Midlands CHE (Walsall),** *Social change and social education,* MEd (CNAA)
47:111 **York,** *Sociology of contemporary culture,* MA
47:112 **York,** *Women's studies,* MA

Certificates and diplomas

47:113 **Belfast,** *Sociology,* Diploma
47:114 **Birmingham,** *Socio-legal studies,* Diploma
47:115 **Bristol,** *Social sciences (sociology),* Diploma
47:116 **Bristol,** *Sociology,* Diploma
47:117 **East Anglia,** *Social institutions of industrial societies,* Diploma
47:118 **East Anglia,** *Sociology,* Diploma
47:119 **Essex,** *Sociology,* Certificate
47:120 **Glasgow,** *Sociology,* Diploma
47:121 **Kent,** *Sociology,* Diploma
47:122 **Lancaster,** *Race relations,* Diploma
47:123 **Lancaster,** *Social analysis,* Diploma
47:124 **London (Goldsmiths'),** *Women's studies in education,* Diploma
47:125 **London (Inst Ed),** *Human rights and education,* Diploma
47:126 **London (LSE),** *Sociology,* Diploma
47:127 **Manchester,** *Sociology,* Diploma
47:128 **Reading,** *General sociology,* Diploma
47:129 **Salford,** *Sociology,* Advanced Certificate
47:130 **Wales (Aberystwyth),** *Sociology,* Diploma
47:131 **West Midlands CHE (Walsall),** *Teaching in the multi-ethnic school,* Diploma (CNAA)

THE UNIVERSITY OF HULL

Sociology, Anthropology & Development Studies

[illegible]

America

MPhil/PhD by Research

Students initially take a taught course in the planning and conduct of research, and subsequently participate in regular research workshops

Subjects in which supervision is available currently include sociological/anthropological stud es in developing areas, including the Middle East, Tropical Africa, South East Asia and parts of Latin America

Also available is supervision in industrial development, the sociology of education, the family war and peace, women s studies social theory and political and social anthropology

Details from.

Dr Norman O Neill, Department of Sociology & Social Anthropology University of Hull, Hull HU6 7RX, North Humberside, England

DEPARTMENT OF SOCIOLOGY: HIGHER DEGREES BY RESEARCH OR EXAMINATION

University of Reading

MPhil/PhD Supervision available over a wide range of subjects Major interests include INTERNAL SECURITY (Crime police terrorism public order) and BELIEF SYSTEMS (Ideology humour folklore)

MA The Department also offers courses leading to an MA in European Studies or an MA in International Studies within the Faculty s inter-disciplinary Graduate School Bureaucracy and Society in E Europe Comparative Criminology Europe and the Islamic World Mediterranean Peasant Societies Social Control in Comparative Perspective Socialism and Socialist Democracy in Europe Terrorism and Political Crime

Contact Dr K B Robertson
Department of Sociology University of Reading Whiteknights Reading RG6 2AA

BIRKBECK COLLEGE

University of London

DEPARTMENT OF POLITICS & SOCIOLOGY

MASTERS DEGREES In POLITICS & SOCIOLOGY, and POLITICS & ADMINISTRATION

One year full time two years part time All formal teaching takes place in the evenings Normally applicants will have a good first degree in a relevant subject or subjects

MSc Politics & Sociology
Compulsory courses in Political Theory and Political Sociology plus two options

MSc Politics & Administration
Compulsory courses in Modern British Politics and Policy and Administration plus two options

Options include [illegible]

Applications, as early in the year as possible to Admissions Officer Department of Politics & Sociology Birkbeck College Malet Street London WC1E 7HX Tel 01 631 6542

Consult an institution's official prospectus bef[illegible] [illegible]

Course advertisements

48 Theology and religious studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

48:1 **Aberdeen,** *Christianity in the non-Western world,* MTh/MLitt/PhD
48:2 **Aberdeen,** *Divinity,* MTh/PhD
48:3 **Belfast,** *Theology,* PhD
48:4 **Birmingham,** *Theology,* MA/MLitt/BD/PhD
48:5 **Brighton Poly,** *Religious studies,* MPhil/PhD (CNAA)
48:6 **Bristol,** *Theology,* MA/MLitt/PhD
48:7 **Cambridge,** *Divinity,* MLitt/PhD
48:8 **Cambridge,** *Oriental studies,* MLitt/PhD
48:9 **Durham,** *Divinity,* MA/MLitt/PhD
48:10 **Edinburgh,** *Ecclesiastical history,* MPhil/PhD
48:11 **Edinburgh,** *Theology,* MPhil/MTh/PhD
48:12 **Exeter,** *Theology,* MPhil/PhD
48:13 **Glasgow,** *Religious studies,* MLitt/PhD
48:14 **Glasgow,** *Theology,* MTh/PhD
48:15 **Hull,** *Theology,* MTh/MPhil/PhD
48:16 **Kent,** *Theology,* MA/PhD
48:17 **Lancaster,** *Religious studies,* MPhil/PhD
48:18 **Leeds,** *Theology and religious studies,* MA/MPhil/PhD
48:19 **Leicester,** *Study of religion,* MA/MPhil/PhD
48:20 **London (Jews'),** *Jewish studies,* MPhil/PhD
48:21 **London (KQC),** *Ecclesiastical history,* MPhil/PhD
48:22 **London (KQC),** *Religious studies,* MPhil/PhD
48:23 **London (KQC),** *Theology,* MPhil/PhD
48:24 **London (UC),** *Hebrew and Jewish studies,* MPhil/PhD
48:25 **Manchester,** *Biblical criticism and exegesis,* MPhil/PhD
48:26 **Manchester,** *Comparative religion,* MPhil/PhD
48:27 **Manchester,** *Philosophy of religion,* MPhil/PhD
48:28 **Manchester,** *Theological studies,* MPhil/PhD
48:29 **Newcastle,** *Religious studies,* MLitt/PhD
48:30 **Nottingham,** *Theology,* MPhil/PhD; supervision available for research; specific staff interests: phil of religion with sp interests in thought of Kierkegaard and Tillich and in German idealism of 19th cent; systematic theology esp 19th- and 20th-cent German theology; social anthropology of religion, sectarian religion, pastoral theology; 2nd Temple Judaism and origins of Christianity; New Testament esp Synoptic Problem, textual criticism, lit criticism and doctrinal development from Paul; hist theology in patristic period with sp interests in theological debates from 5th to 9th cent; Islamic studies esp relationship betwn Islam and Christianity. Contact Dr JB Muddiman
48:31 **Open,** *Religious studies,* BPhil/MPhil/PhD
48:32 **Oxford,** *Theology,* MLitt/DPhil
48:33 **St Andrews,** *Divinity,* MPhil/PhD
48:34 **St Paul & St Mary's C,** *Theology and religious studies,* MPhil/PhD (CNAA)
48:35 **Sheffield,** *Biblical studies,* MPhil/PhD
48:36 **Southampton,** *Theological and religious studies,* MPhil/PhD
48:37 **Stirling,** *Religious studies,* MLitt/PhD

48 38 Sussex, *Religious studies*, MPhil/DPhil
48 39
48 40
48 41
48 42
48 43 Wales (Lampeter), *Theology and religious studies*, MA/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

48 44 Aberdeen, *Biblical studies*, MTh
48 45 Aberdeen, *Christianity in the non-Western world*, MTh
48 46 Belfast, *Theology*, MTh
48 47 Birmingham, *Studies in religion and culture*, MA
48 48 Birmingham, *Textual criticism of the New Testament*, MA
48 49 Birmingham, *Theology*, BD
48 50 Bristol, *Political theology*, MA
48 51 Bristol, *Problems of Biblical interpretation in modern study*, MA
48 52 Bristol, *Religion and mythology in the ancient world*, MA
48 53 Bristol, *Religious studies*, MA
48 54 Bristol, *Victorian studies (to 1914)*, MA
48 55 Cambridge, *Theology*, MPhil/Diploma
48 56
48 57
48 58
48 59
48 60 Exeter, *Theology*, MA
48 61
48 62
48 63
48 64
48 65 Lancaster, *Sociology of religion*, MA
48 66 Leeds, *Religious studies*, MA
48 67 Leeds, *Theology*, MA
48 68
48 69
48 70
48 71
48 72
48 73
48 74
48 75
48 76
48 77 Manchester, *Social and pastoral theology*, MA(Theol)/Diploma

48:78 **Manchester,** *Theology,* BD
48:79 **Nottingham,** *Theology,* MTh
48:80 **Oxford,** *Eastern Christian studies,* MPhil
48:81 **Oxford,** *Jewish studies in the Graeco-Roman period,* MPhil/MSt
48:82 **Oxford,** *Modern Jewish studies,* MPhil/MSt
48:83 **Oxford,** *Syriac studies,* MSt
48:84 **Oxford,** *Theology,* MPhil/MSt
48:85 **St Andrews,** *Divinity,* MPhil
48:86 **S Martin's C (Lancaster),** *Religious education,* MA (Lancaster)
48:87 **Sheffield,** *Biblical studies,* MA
48:88 **Sussex,** *Religious studies,* MA
48:89 **Ulster,** *Ethics and philosophy of religion,* MA/Diploma
48:90 **Wales (Aberystwyth),** *Ancient philosophy and religion,* MA
48:91 **Wales (Bangor),** *Biblical studies,* MA
48:92 **Wales (Bangor),** *Theology,* MTh
48:93 **Wales (Cardiff),** *Pastoral studies,* MTh/Diploma
48:94 **Wales (Cardiff),** *Study of religions,* MA
48:95 **Wales (Cardiff),** *Theology,* MTh
48:96 **Wales (Lampeter),** *Philosophy,* MA
48:97 **Wales (Lampeter),** *Religion and ethics in Western thought,* MA
48:98 **West Sussex IHE (Bognor Regis),** *Religious studies,* MPhil (CNAA)

Certificates and diplomas

48:99 **Birmingham,** *Liturgy and architecture,* Diploma
48:100 **Birmingham,** *Pastoral studies,* Diploma
48:101 **Birmingham,** *Theology,* Diploma
48:102 **Bristol,** *Theology,* Diploma
48:103 **Christ Church C (Canterbury),** *Religious education,* Diploma (Kent)
48:104 **Edinburgh,** *Christian education,* Diploma
48:105 **Exeter,** *Theology,* Diploma
48:106 **King Alfred's C (Winchester),** *Religious studies,* Certificate
48:107 **Lancaster,** *Religious studies,* Diploma
48:108 **Liverpool IHE,** *Religious education,* Diploma
48:109 **London (Jews'),** *Jewish studies,* Diploma
48:110 **Newcastle,** *Religious studies,* Diploma
48:111 **Nottingham,** *Theology,* Diploma
48:112 **Oxford,** *Theology,* Diploma
48:113 **St Andrews,** *Church music,* Diploma
48:114 **St Andrews,** *Pastoral theology,* Diploma
48:115 **St Mary's C (Strawberry Hill),** *Religious education,* Diploma (Surrey)
48:116 **Stirling,** *Religious studies,* Certificate
48:117 **Strathclyde,** *Religious education,* Certificate

Research facilities and courses:
II Biological, health and agricultural sciences

For institution addresses and further information sources, see the 'Institutions' section, starting on page 479

49 Agriculture: general

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

49:1 **Aberdeen,** *Agriculture,* MSc/PhD
49:2 **Belfast,** *Crop and animal production,* MAgr/MSc/PhD
49:3 **Bristol,** *Agriculture and horticulture,* MSc/PhD
49:4 **Edinburgh,** *Agriculture,* MSc/PhD
49:5 **Glasgow,** *Agriculture,* MSc/PhD
49:6 **London (Wye),** *Agriculture,* MPhil/PhD *See page 239*
49:7 **Newcastle,** *Agriculture,* MSc/PhD
49:8 **Nottingham,** *Agriculture and horticulture,* MPhil/PhD
49:9 **Reading,** *Agricultural extension and rural development,* MPhil/PhD
49:10 **Reading,** *Agricultural history,* MPhil/PhD
49:11 **Reading,** *Agriculture,* MPhil/PhD
49:12 **Southampton,** *Biology,* MPhil/PhD
49:13 **Wales (Aberystwyth),** *Agriculture,* MSc/PhD
49:14 **Wales (Bangor),** *Agriculture,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

49:15 **East Anglia,** *Agricultural research and development,* MSc, 1c yr f-t (relevant deg normally req); experienced agriculturalists and agricultural scientists from industrialised countries who intend to work in developing countries considered; training relevant to developing country problems and opportunities, enables participants to work effectively within agricultural development programmes, training in principles of agricultural research and development in tropics and sub-tropics and in techniques needed to solve development problems; *course content:* agricultural research and extension, agricultural experimentation, political economy of agrarian change, land resource assessment, agricultural policy and planning, resource management, agricultural development research; dissertation.
49:16 **Reading,** *Agricultural extension,* MSc/Diploma
49:17 **Reading,** *Rural social development,* MSc/Diploma
49:18 **Reading,** *Tropical agricultural development,* MSc/MAgrSc/Diploma

Certificates and diplomas

49:19 **Belfast,** *Agricultural communication,* Diploma
49:20 **London (Wye),** *Agricultural development,* Diploma
49:21 **Reading,** *Agricultural education,* Diploma, 1 yr f-t; *course content:* farming systems, designing curricula, teaching in agriculture. **Contact** Miss A McCord, Assistant Registrar & Secretary

Degrees MPhil/PhD/MSc or Diploma

Length of courses 1 year MSc/Diploma 2 years MPhil 3 years PhD

No of places Approximately 150 (70 research and 80 MSc/Diploma)

Description of courses Wye College is the School of Agriculture and Horticulture in the Faculty of Science of

development overseas farm business management marketing agricultural policy) landscape ecology design and maintenance tropical and sub-tropical horticulture and crop science rural resources and environmental policy conservation of soil fertility Diploma after one academic year in agricultural development

Entrance requirements Normally a second-class honours

50 Agriculture: biology, botany, crop and plant science

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

50 1 **Aberdeen,** *Agriculture,* MSc/PhD
50 2 **Bath,** *Crop protection,* MSc/PhD
50 3 **Bath,** *Plant sciences,* MSc/PhD
50 4 [illegible]
50 5 [illegible]
50 6 [illegible]
50 7 [illegible]
50 8 [illegible]
50 9 **Leeds,** *Plant sciences,* MPhil/PhD
50 10 [illegible]
50.11 [illegible]
50 12 [illegible]
50 13 [illegible]
50 14 [illegible]
50 15 [illegible]

Vicia cytogenetics and evolution of *Capsicum* taxonomy of cultivated plants, *crop physiol and biochem* chem regulation of growth patterns in cereals, physiol aspects of watercress production, physiol of herbicide activity, cellular accumulation of storage cpds in crops, ethylene biosynthesis, *crop and weed ecology* ecology of annual grass weeds, crop weed competition, grass legume interactions in pastures, ecological genetics of pasture spp and weeds, mixed cropping population biol of weeds, temp, radiation and crop growth, factors affecting leaf growth, climatic determinants [illegible] of

50 16 [illegible]
50 17 [illegible]
50.18 [illegible]
50 19 **Wales (Bangor),** *Plant biology,* MSc/PhD, supervision available, current research interests inc plant architecture, carbon in plant growth, physiol of plants infected with fungi, effects of breeding [illegible]

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

50:20 **Aberdeen,** *Crop science,* MSc
50:21 **Cambridge,** *Plant breeding,* MPhil
50:22 **Cranfield (Silsoe),** *Crop storage and processing technology,* MSc/Diploma
50:23 **Cranfield (Silsoe),** *Tropical crop storage and processing,* MSc/Diploma
50:24 **Edinburgh,** *Seed technology,* MSc/Diploma
50:25 **London (Imperial),** *Plant pathology,* MSc/DIC
50:26 **London (Imperial),** *Weed science,* MSc/DIC
50:27 **London (Wye),** *Applied plant sciences,* MSc
50:28 **London (Wye),** *Tropical and sub-tropical horticulture and crop science,* MSc
50:29 **Nottingham,** *Agronomy,* MSc
50:30 **Reading,** *Crop physiology,* MSc, 1c yr f-t; study of physiol of growth and development of whole plants, esp when growing in crop conditions, emphasis on aspects of physiol research that lead to understanding of growth of crops; *course inc:* germination and seedling estab; morphological bases of vegetative and reproductive growth patterns; measurement, analyses and correlations of growth measurements; developmental physiol and growth patterns; chem regulation of growth; biochem synthesis of major crop storage substances; climate and crop growth; soil conditions and water relations and mineral nutrition of crops; accumulation and translocation of reserve materials; flowering and seed and fruit formation; visits to research stations, intro course in computer programming available; exam and report on guided investigation. **Contact** Dr RW Snaydon
50:31 **Reading,** *Food and agricultural biotechnology,* MSc
50:32 **Reading,** *Grassland science,* MSc
50:33 **Reading,** *Technology of crop protection,* MSc
50:34 **Southampton,** *Tropical and sub-tropical crops research,* MSc/Diploma
50:35 **Wales (Aberystwyth),** *Agronomy of agricultural and amenity grassland,* MSc
50:36 **Wales (Aberystwyth),** *Cell and molecular genetics of crop plants,* MSc
50:37 **Wales (Aberystwyth),** *Improvement and renovation of grassland,* MSc
50:38 **Wales (Aberystwyth),** *Plant breeding,* MSc
50:39 **Wales (Aberystwyth),** *Plant disease management,* MSc
50:40 **Wales (Aberystwyth),** *Symbiotic nitrogen fixation,* MSc
50:41 **Wales (Bangor),** *Crop protection,* MSc/Diploma

Certificates and diplomas

50:42 **Harper Adams AgC,** *Crop protection,* Diploma (CNAA), 1 yr f-t (deg in agriculture or science req, or other approved qual with approp experience); training for employment in agrochem, advisory and teaching organisations; *syllabus:* soil science; agronomy of British crops; biol, bionomics and epidemiology of pests, weeds and diseases; control of pests, weeds and diseases in cropping systems; chem and mode of action of pesticides; mechanisation of crop protection measures; safety precautions and side effects of pesticides; design and analysis of field expts; College's farm is regional trial centre for National Inst of Agricultural Botany; close contact with crop protection industries and research centres made by seminars and visits to research estabs, exptl farms and commercial organisations; continuous assessment and exam; course and exam give exemption from reqs of British Agrochemical Supply Industries Scheme following practical experience. **Contact** RJ Jopling

51 Agriculture: economics and management

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

51:1 **Belfast,** *Agricultural economics,* MAgr/PhD
51:2 **Edinburgh,** *Agricultural economics,* MPhil/PhD
51:3 **Exeter,** *Economics,* MPhil/PhD
51:4 **Glasgow,** *Agricultural economics,* MLitt/PhD
51:5 **London (Wye),** *Agricultural economics,* MPhil/PhD
51:6 **Manchester,** *Agricultural economics,* MA(Econ)/PhD
51:7 **Newcastle,** *Agricultural economics,* MSc/PhD
51:8 **Newcastle,** *Agricultural and food marketing,* MSc/PhD
51:9 **Nottingham,** *Economics,* MPhil/PhD
51:10 **Reading,** *Agricultural economics and management,* MPhil/PhD
51:11 **Wales (Aberystwyth),** *Agricultural economics,* MSc/PhD *See page 246*
51:12 **Wales (Bangor),** *Agricultural economics,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

51:13 **Aberdeen,** *Agricultural economics,* MSc
51:14 **Belfast,** *Farm business economics,* MAgr
51:15 **Cranfield (Silsoe),** *Marketing and product management for agriculture and food,* MSc/Diploma
51:16 **East Anglia,** *Agricultural economics,* MSc, 1c yr f-t; training in theories and techniques relevant to agricultural planning and policy making in developing countries, sp attention to analysis of agricultural and rural development problems where employment and equity goals important; *course content:* agricultural economics theory, political economy of agrarian change, development economics, quantitative methods, project appraisal, agricultural development planning, applied agricultural economics, rural development planning; assessment of coursework, exams, dissertation.
51:17 **London (Wye),** *Agricultural economics,* MSc
51:18 **London (Wye),** *Rural resources and environmental policy,* MSc
51:19 **Manchester,** *Agricultural economics,* MA(Econ)
51:20 **Oxford,** *Agricultural economics,* MSc, 1c yr f-t; *coursework:* aspects of private and public decision making, policies, population, manpower, inst matters relating to agricultural and assoc industries in developed and developing countries, use of quantitative methods in agricultural economics; plus dissertation. Contact The Administrator
51:21 **Reading,** *Agricultural economics,* MSc
51:22 **Reading,** *Agricultural management,* MSc
51:23 **Wales (Aberystwyth),** *Agricultural and food marketing,* MSc *See page 246*
51:24 **Wales (Aberystwyth),** *Agricultural economics,* MSc/Diploma

Certificates and diplomas

51 25 **Aberdeen,** *Agricultural economics*, Diploma
51 26 **East Anglia,** *Agricultural development economics*, Diploma
51 27 **Manchester,** *Agricultural economics*, Diploma
51 28 **North Scotland CAg,** *Farm business organisation and management*, Diploma
51 29 **Reading,** *Agricultural economics*, Diploma
51 30 **Seale Hayne C,** *Farm management*, Diploma
51 31 **Seale-Hayne C,** *Management studies (agriculture)* DMS (CNAA)

53 Agriculture: forestry

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

53 1 **Aberdeen**, [illegible]

fungal ecology and coniferous litter decomposition forest policy and taxation genetics tree breeding and applications of related biotechnological techniques such as tissue culture, micropropagation and protoplast fusion growth modelling in forests tree growth physiol and response to environmental inputs in fl flow in wood in relation to fundamentals of wood preservation physics of tree in relation to wind and snow damage management and silviculture of hardwood spp esp birch development control and inheritance of crown form influence of soil conditions on development of tree root systems **Contact** Dr WH Parry

53 2 **Edinburgh**, ***Forestry and natural resources***, MPhil/PhD
53 3 **London (Imperial)**, ***Plant science***, MPhil/PhD
53 4 **Oxford**, ***Forestry***, MLitt/MSc/DPhil
53 5 **Wales (Bangor)**, ***Forestry and wood science***, MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

53 6 **Aberdeen**, *Forestry*, MSc/Diploma 1c yr f t (MSc) 9 mths f t (Diploma) (deg in forestry agriculture ecology or equiv) both available in *forest mensuration and inventory forest business management* and *forest inventory and soil survey* with opportunity to study a range of postgrad modules being offered by various environmental science depts also Diploma in *forest resource studies* designed for forest managers from developing countries **Contact** Dr WH Parry
53 7 **Edinburgh**, ***Forestry and natural resources*** MSc/Diploma
53 8 **Oxford**, ***Forestry and its relation to land use***, MSc
53 9 **Wales (Bangor)**, ***Environmental forestry*** MSc
53 10 **Wales (Bangor)**, ***Forest industries technology***, MSc/Diploma

Certificates and diplomas

53 11 **Buckinghamshire CHE**, ***Timber studies*** Diploma
53 12 **Wales (Bangor)**, ***Forestry***, Diploma
53 13 **Wales (Bangor)**, ***Wood science***, Diploma

54 Agriculture: horticulture

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

54:1 **Bath,** *Horticulture*, MSc/PhD
54:2 **Bristol,** *Agriculture and horticulture*, MSc/PhD
54:3 **London (Wye),** *Horticulture*, MPhil/PhD
54:4 **Nottingham,** *Agriculture and horticulture*, MPhil/PhD
54:5 **Reading,** *Horticulture*, MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

54:6 **Bath,** *Crop production*, MSc
54:7 **London (Wye),** *Tropical and sub-tropical horticulture and crop science*, MSc

55 Agriculture: sciences (including chemistry, biochemistry, physics etc)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

55 1 [illegible]
55 2 [illegible]
55 3 [illegible]
55 4 [illegible]
55 5 **Glasgow,** *Agricultural chemistry* MSc/PhD
55 6 **London (Wye),** *Agricultural sciences* MPhil/PhD
55 7 [illegible]
55 8 [illegible]
55 9 [illegible]

sub-fertility in cattle hormonal control of mammary function in ruminants ovulation and puberty in domesticated farm animals mechanisms of amino acid transport into mammary cells neurophysiol of opioids gene structure and control of plant development seed proteins embryogenesis fruit ripening tomato genetics physiol of ABA deficient mutants gravitropism senescence seed germination plant hormones phytopathology antibiotics physiol of plant pathogen interactions environmental effects on plant diseases stomatal physiol photosynthesis water use growth and productivity of temperature and tropical crops plant breeding instrumentation for micrometeorology and crop ecology remote sensing of crop growth uptake of sulphur dioxide by crops, soil water relations and root function heavy metals in soil climatic physiol of livestock Contact Professor GE Lamming

55 10 [illegible]
55 11 [illegible]
55 12 [illegible]

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

55 13 **London (Imperial),** *Applied entomology* MSc/DIC
55 14 **London (Imperial),** *Applied nematology* MSc/DIC
55 15 **Reading,** *Agricultural meteorology* MSc
55 16 **Southampton,** *Insect pest management,* MSc/Diploma
55 17 **Wales (Aberystwyth),** *Biochemistry and agricultural biochemistry,* MSc/Diploma

Certificates and diplomas

55 18 **Wales (Aberystwyth),** *Agricultural science* Diploma
55 19 **Wales (Bangor),** *Agricultural science* Diploma

56 Agriculture: soil science

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section

56:1 **Aberdeen,** *Soil science*, MSc/PhD
56:2 **Edinburgh,** *Soil science*, MPhil/PhD
56:3 **London (Wye),** *Soil science*, MPhil/PhD
56:4 **Newcastle,** *Soil science*, MSc/PhD *See page 253*
56:5 **Oxford,** *Applied biology and soil science*, MLitt/MSc/DPhil
56:6 **Reading,** *Soil science*, MPhil/PhD *See page 253*
56:7 **Wales (Aberystwyth),** *Soil science*, MSc/PhD
56:8 **Wales (Bangor),** *Biochemistry and soil science*, MSc/PhD
56:9 **Wolverhampton Poly,** *Soil science*, MPhil/PhD (CNAA/various univs)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

56:10 **Aberdeen,** *Soil science*, MSc/Diploma *See page 252*
56:11 **Cranfield (Silsoe),** *Soil conservation*, MSc
56:12 **Newcastle,** *Soil science*, MSc *See page 253*
56:13 **Reading,** *Soil science*, MSc *See page 253*

Certificates and diplomas

56:14 **Edinburgh,** *Rural science*, Diploma
56:15 **Wales (Aberystwyth),** *Soil science*, Diploma

Soil Science — UNIVERSITY OF ABERDEEN

Degree Diploma in Soil Science
Length of course 9 months
Degree MSc in Soil Science
Length of course 12–24 months
Degree PhD (research)
Length of course 36 months
Description of courses The Diploma and MSc degrees include taught courses in one of the following five options but the MSc may include a research project and a dissertation
Soil physics incl aspects of crop environmental physics and soil mechanics
Soil chemistry, fertility and management incl aspects of crop nutrition and field experimentation
Soil microbiology incl plant microbial interaction rhizosphere biology, and the modelling of organic matter decomposition
Soil, plant and water analysis incl analytical instrumentation
Pedology, land use and soil survey incl aspects of soil genesis, morphology and classification, and aerial photography
Entrance requirements For MSc and PhD, a good honours degree in a relevant subject, for the Diploma a pass degree or its equivalent in a relevant subject
Further information The Department of Soil Science University of Aberdeen, Aberdeen AB9 2UE

57 Agriculture: zoology, animal science and husbandry

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

57:1 **Aberdeen,** *Agriculture,* MSc/PhD
57:2 **Belfast,** *Agricultural zoology,* MAgr/MSc/PhD
57:3 **Bristol,** *Animal husbandry,* MSc/PhD
57:4 **Edinburgh,** *Animal science,* MPhil/PhD
57:5 **Glasgow,** *Agricultural zoology,* MSc/PhD
57:6 **Glasgow,** *Animal husbandry,* MSc/PhD
57:7 **Glasgow,** *Dairy science,* MSc/PhD
57:8 **London (Wye),** *Animal biochemistry,* MPhil/PhD
57:9 **London (Wye),** *Animal physiology,* MPhil/PhD
57:10 **Newcastle,** *Agricultural biology,* MSc/PhD
57:11 **Nottingham,** *Physiology and environmental science,* MPhil/PhD
57:12 **Reading,** *Zoology,* MPhil/PhD
57:13 **Stirling,** *Aquaculture,* MSc/PhD
57:14 **Wales (Aberystwyth),** *Agriculture,* MSc/PhD;
57:15 **Wales (Bangor),** *Animal biology,* MSc/PhD
57:16 **West Scotland AgC,** *Poultry science,* MSc/PhD (Glasgow)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

57:17 **Aberdeen,** *Animal nutrition,* MSc
57:18 **Aberdeen,** *Animal production,* MSc
57:19 **Edinburgh,** *Animal breeding,* MSc/Diploma
57:20 **Edinburgh,** *Animal health,* MSc/Diploma
57:21 **Edinburgh,** *Tropical animal production and health,* MSc/Diploma
57:22 **Glasgow,** *Poultry science,* MSc/Diploma
57:23 **London (Royal Veterinary),** *Animal health,* MSc
57:24 **Newcastle,** *Animal nutrition,* MSc
57:25 **Newcastle,** *Applied entomology,* MSc
57:26 **Reading,** *Animal production,* MSc
57:27 **Reading,** *Grassland science,* MSc
57:28 **Stirling,** *Aquaculture and fishery management,* MSc/Diploma
57:29 **Wales (Bangor),** *World animal production,* MSc/Diploma, 1c yr f-t; provides working knowledge of systems of animal production throughout world and explanation of scientific bases of these systems; *topics inc:* forage production (temperate zone and irrigated areas); animal production (British and overseas systems); animal physiol and nutrition; environmental factors (eg effects of adverse environmental conditions on animal production, suitability of breeds for different climates); housing and mechanisation (inc accommodation for livestock under different environmental conditions, cultivation, sowing and harvesting machinery); livestock health (diseases, inc tropical diseases, and their control and treatment); plus dissertation. **Contact** Dr AG Chamberlain
57:30 **West Scotland AgC,** *Poultry science,* MSc (Glasgow)

Certificates and diplomas

57 31 **Aberdeen,** *Animal nutrition*, Diploma
57 32 **Reading,** *Animal production*, Diploma
57 33 **West Scotland AgC,** *Poultry science*, Diploma (Glasgow)

58 Biological sciences: general studies (including biology)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

58:1 **Aston,** *Molecular sciences,* MPhil/PhD; projects offered in research gps: endocrinology and metabolism; diabetes, fish reproduction, immunoendocrinology; neurochem; brain metabolism, tetrahydrobiopterin and tetrohydrofolate biochem. **Contact** Dr GB Briscoe

58:2 **Bolton IHE,** *Biology,* MSc/PhD

58:3 **Bradford,** *Environmental sciences,* MPhil/PhD

58:4 **Bristol Poly,** *Biological sciences,* MPhil/PhD (CNAA)

58:5 **Brunel,** *Applied biology,* MPhil/PhD

58:6 **Buckingham,** *Biology,* MPhil/DPhil

58:7 **Cambridge,** *Anatomy,* MSc/PhD

58:8 **Cambridge,** *Applied biology,* MSc/PhD

58:9 **City of London Poly,** *Biological sciences,* MPhil/PhD (CNAA)

58:10 **Coventry (Lanchester) Poly,** *Biological sciences,* MPhil/PhD (CNAA/London)

58:11 **Derbyshire CHE (Derby),** *Biological sciences,* MPhil/PhD

58:12 **Dundee,** *Biological sciences,* MSc/PhD; supervision available, main research interests inc: cyanobacteria (blue-green algae); picoplankton and other marine cyanobacteria; genetic analysis of N fixation and assimilation in cyanobacteria, ecological and molecular genetics of heterotrophs and autotrophic bacteria; generation of biol active molecules from photosynthetic and other micro-organisms; structural, regulatory and genetic studies of enzymes of carbon dioxide assimilation; osmotic responses of micro-organisms; gene pools of micro-organisms and their biotechnological uses; physiol and biochem aspects of algal cell growth in photoreactors; cyanobacterial toxins; algal and bacterial cell immobilisation production of excretion products; microbial growth and low temps; use of antibodies as molecular probes; viruses and other microbial pathogens; microbiol of estuarine sediments; microbiol of bacteria involved in sulphur cycle; physiol of fungi, yeasts and fish; growth of micro-algae under light-limited conditions; limitations on C, N and P acquisition by macrophytes in fast-flowing streams; stomatal responses to water deficit stress; nitrogen nutrition of legumes and nodulated tree legumes; influence of genotypes and rock phosphates in mycorrhizal and nodulated plants in semi-arid tropics; ecology of mires; eutrophication and waste treatment in freshwater; marine and estuarine ecology; dermal/epidermal interactions in development and growth of skin appendages; transplantable collagens for tissue replacement; biol of reptile parasites and reptile ecology; reproduction and physiol of mosquitos in relation to control; use of insect natural enemies in biol control; mass rearing of predators; evolutionary stability; mathematical modelling of ecology, behaviour and evolution; evolution and ecology of predation and parasitism; feeding behaviour and prey polymorphism; aposematism and mimicry; avian ecology and genetics; molluscan ecology and genetics. **Contact** Dr MJ Daft

58:13 **East Anglia,** *Ecology,* MPhil/PhD

58:14 **East Anglia,** *Environmental sciences,* MPhil/PhD

58:15 **Essex,** *Biology,* MSc/MPhil/PhD; supervision available, current research inc: immunol, mechanisms of photosynthesis (light harvesting apparatus and electron transport, carbon dioxide assimilation), development of photosynthetic systems, environmental effects on physiol of photosynthesis, genetics of hormone production and development in mice, biochem events during cell cycle, recombinant-DNA technology in micro-organisms, virology, control of DNA transcription by specific proteins, protein/DNA interactions, control of gene action in simple eukaryotes, ecological genetics and adaption in natural populations, productivity and nutrient cycling in freshwater and brackish lakes, primary production in saltmarshes, microbiol of S, N and C in

sediments ecology and physiol of soil micro-organisms reclamation of derelict land Contact Dr NR Baker

58 16 [illegible]

58 17 [illegible]

58 18 [illegible]

58 19 **Heriot Watt,** *Brewing and biological sciences,* MSc/PhD

58 20 **Huddersfield Poly,** *Life sciences,* MPhil/PhD (CNAA)

58 21 [illegible]

58 22 [illegible]

58 23 [illegible]

58 24 [illegible]

58 25 [illegible]

58 26 **Leeds Poly,** *Health and applied sciences,* MPhil/PhD

58 27 **Leicester Poly,** *Life sciences,* MPhil/PhD (CNAA)

58 28 [illegible]

58 29 [illegible]

58 30 [illegible]

58 31 [illegible]

58 32 [illegible]

different sensory modalities within CNS *genetics cytology and molecular biol* mechanisms to

(channelling) in *Escherischia coli* enzymology separation techniques for biogenic amines

58 33 [illegible]

58 34 [illegible]

58 35 [illegible]

58 36 [illegible]

58 37 [illegible]

58 38 **Napier C (Edinburgh),** *Science* MPhil/PhD (CNAA) supervision available for research information available from Heads of Depts of Biol Sciences Applied Chem Sciences Computer Studies Maths Physics Contact Information Office

58 39 [illegible]

58 40 [illegible]

58 41 [illegible]

58 42 [illegible]

58 43 [illegible]

58 44 **Oxford,** *Applied biology and soil science,* MLitt/MSc/DPhil

58 45 **Oxford,** *Biological anthropology,* MSc/DPhil

58 46 **Oxford,** *Biomathematics,* MSc DPhil

58:47 Oxford, *Morphology and development,* MSc/DPhil
58:48 Oxford, *Taxonomy and ecology,* MSc/DPhil
58:49 Oxford Poly, *Biology,* MPhil/PhD (CNAA)
58:50 Paisley CT, *Biology,* MPhil/PhD (CNAA)
58:51 Plymouth Poly, *Biological sciences,* MPhil/PhD (CNAA); supervision available for research; facilities in particular for biol fieldwork, based on local moors, rivers, estuary, sea; lab eqpt for almost all branches of mod biol; exptl station with pilot fish farm, greenhouses, exptl plots and woodland; sub-littoral ecological work possible; diving training available. **Contact** Academic Registrar
58:52 Plymouth Poly, *Environmental sciences,* MPhil/PhD (CNAA); supervision available for research; interests inc: estuarine pollution, lake sedimentology; chem analysis in medical, forensic, industrial and environmental fields using wide range of analytical eqpt. **Contact** Academic Registrar
58:53 Poly of Central London, *Applied ecology,* MPhil/PhD
58:54 Poly of Central London, *Neurobiology and psychology,* MPhil/PhD (CNAA)
58:55 Poly of North London, *Food and biological sciences,* MPhil/PhD (CNAA)
58:56 Poly of Wales, *Science,* MPhil/PhD (CNAA)
58:57 Portsmouth Poly, *Biological sciences,* MPhil/PhD (CNAA)
58:58 St Andrews, *Marine biology,* MSc/PhD
58:59 Salford, *Biological sciences,* MSc/PhD; supervision available, interests inc: *agricultural biol:* effects of environmental factors on microfauna of crop/soil interface; *entomology:* biol of bark beetles; *biol materials analysis:* high-speed automatic methods; *clinical biochem:* biochem of lens proteins; *environmental studies:* ecological surveys of Dee and Mersey estuaries; *enzymology and protein biochem:* cellulases and hemicellulases; *freshwater fisheries:* feeding habits of freshwater fish; *human physiol:* effects of physical work and exercise on healthy human beings; *immunobiol:* delineation of immune response in fish; *ionisin* [illegible] *structure and function; microbiol:* ecology and developmental biol of [illegible] *and neuropharmacology:* role of neuroglia in nervous systems of molluscs and insects; *parasitology:* host-parasite relationship in organisms responsible for trypanosomiasis and filariasis; *plant pathology:* fungal diseases of wheat; *plant cytology:* structure of plant cells; *plant tissue culture:* production of secondary metabolites by cultured plant cells; *seed technology:* seed viability; *vertebrate studies:* locomotory organs of fish. **Contact** Professor TA Villiers *See page 261*
58:60 Salford, *Environmental studies,* MSc/PhD
58:61 Sheffield City Poly, *Biological sciences,* MPhil/PhD (CNAA)
58:62 Southampton, *Biology,* MPhil/PhD
58:63 South Bank Poly, *Applied biology and food science,* MPhil/PhD (CNAA)
58:64 Stirling, *Biology,* MSc/PhD; supervision available for research in Dept of Biol Science; current interests inc: *microbiol:* ecophysiol of fungi, bioconversions; microrespiration and energy balance in protozoa; slime mould development; fungal spore germination; *plant physiol:* ultrastructure and developmental biol of cells; physiol and biochem of ethylene controlled processes; water relations; stomatal function; photosynthesis and respiration; seed development and germination; *plant ecology:* metalliferous soils; tropical ecology; forest dynamics; numerical analysis; *animal physiol:* hormonal control of water balance in hibernating and xeric mammals; fish physiol; airbreathing in inter-tidal fish; swimbladder and kidney function; neurophysiol of Arthropods; structure and function of sensory organs in crustacea; *animal ecology:* foraging and breeding energetics of birds; population dynamics; aquatic and littoral studies; aquatic pollution. **Contact** Professor JR Sargent
8:65 Strathclyde, *Biology,* MSc/PhD; supervision available; research interests inc: *molecular biol:* DNA methylation and eukaryotic gene expression; structure and expression of genes for 'stress proteins' in animals and plants; *pesticides:* mode of action and basis of selectivity of certain foliage or soil-applied herbicides and fungicides; *cell biol:* role of heat shock proteins in plant and animal cells; effects of hyperthermia on normal and cancer cells; ultrastructural and cytochem studies on actinorrhizal and mycorrhizal symbioses in leguminous and non-leguminous nodulated plants; alkaloid induced changes in fine structure of mammalian tissues; *genetics:* genetics of tissue transplantation in relation to maintenance of histo-compatibility polymorphism in natural populations of mammals; population genetics of weeds and rare endemic plant spp; computer analysis of relevant models. **Contact** Professor RH Burdon
58:66 Thames Poly, *Biological sciences and environmental health,* MPhil/PhD (CNAA)
58:67 Trent Poly, *Life sciences,* MPhil/PhD (CNAA)
58:68 Ulster, *Biology,* MPhil/DPhil

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58 70 See page 261
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58 75

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

58 76 **Aberdeen,** *Ecology,* MSc 1c yr f t (hons deg in biol botany forestry zoology or equiv qual usually req deg in geog geol or soil science considered) *course inc* gen theory of ecology and

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58 81
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58 83 See page 260
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water pollution and in management of water resources training for employment by water authority river purification board drainage and water supply authority water research lab or industry concerned with toxicity testing or effluent treatment, *main subj areas* natural quality of water resources, pollution causes pollution effects pollution control assessment of coursework written exam research project Contact Information Office

58 90 **NE London Poly,** *Biology in education,* MSc/Diploma (CNAA)
58 91 **Oxford,** *Human biology,* MSc/Diploma
58 92 **Portsmouth Poly,** *Biodeterioration of materials,* MSc (CNAA)
58 93 **Reading,** *Biometry,* MSc
58 94 **Salford,** *Environmental resources,* MSc/Diploma
58 95
58 96
58 97
58 98
58 99
58 100

Certificates and diplomas

58 101 **Durham,** *Ecology,* Diploma
58 102 **East Anglia,** *Biological sciences,* Diploma

Biological,

58:103 **East Anglia,** *Environmental sciences,* Diploma
58:104 **Essex,** *Biology,* Diploma
58:105 **Lancaster,** *Ecological and environmental sciences,* Diploma, 1 yr f-t (deg or equiv in approp science subj normally req, other applicants considered); offers specialist knowledge in wide range of aspects of ecology and environmental sciences, suitable preparation for research; *course content:* designed to meet individual needs, choice of units in biol sciences, ecology, environmental sciences, practical work, research or lit dissertation; assessment of coursework, exam, dissertation. Contact Dr KJ Beven, Dept of Environmental Science
58:106 **Liverpool IHE,** *Environmental education,* Diploma
58:107 **NE London Poly,** *Biometry,* Diploma (CNAA)
58:108 **Portsmouth Poly,** *Environmental education,* Diploma
58:109 **Southampton,** *Biology,* Certificate
58:110 **Sunderland Poly,** *Ecology,* Certificate
58:111 **West Midlands CHE (Walsall),** *Environmental studies in the middle years of schooling,* Diploma (CNAA)

UNIVERSITY of SALFORD

DEPARTMENT OF BIOLOGICAL SCIENCES

Supervision is available for research leading to the degrees of MSc and PhD, either full-time or part-time, in the following fields of study

- **Animal Sciences** – parasitology, entomology, freshwater fisheries, human and clinical physiology, agricultural biology, neurobiology, vertebrate anatomy
- **Biochemical Sciences** – immunobiology, membrane structure and function, clinical biochemistry, enzymology, biological materials analysis, radiation biology, photobiology
- **Microbiology** – microbial ecology, biochemical and genetic analysis, cell binding, biology of food yeasts
- **Plant Sciences** – seed technology, seed physiology, plant pathology, cytology and electron microscopy, plant tissue culture

Further information and prospectuses are available from The Chairman, Department of Biological Sciences, University of Salford, Manchester M5 4WT

University College of Swansea

SCHOOL OF BIOLOGICAL SCIENCES

Biological sciences, **MSc/PhD by research** supervision available in biochem, botany genetics, microbiol and zool, research areas inc:

- *Biomedical and physiol studies* comparative immunol inc effects of pollutants, molecular mechanisms in carcinogenesis and genetic toxicology· monoclonal antibodies, neurophysiology· chem influence on behaviour and physiology
- *Ecological and evolutionary studies* genetic variation in populations, esp in relation to breeding systems, ecological diversity and maintenance of separation in closely related spp· chloroplast inheritance.
- *Marine biology* reproductive biol of invertebrates and fish, fisheries biology· shellfish biol, biol of benthic animals and communities, parasitology· pollution and phytoplankton ecology
- *Plant and microbial metabolic studies* physiol, biochem and molecular biol of microalgae and fungi, host–pathogen interaction in plant disease; microbial metabolism of cellulose and lignin, biotechnology of waste and renewable resources, salt tolerance
- *Biochemical studies* biochem of higher plants and cyanobacteria esp N-cpds, lipids and cell wall polysaccharides, *free nucleotides in mammalian tissue*

MSc Genetics and its applications

A one year full time MSc course with common core of basic genetics, cytogenetics, molecular genetics, biol data analysis and computing plus one of following four streams of specialisation, (1) genetics and its applications (in conjunction with Centre for Development Studies) (2) modern techniques in molecular genetics and genetic toxicology· (3) applications of genetics to animal breeding (with emphasis on fish) (4) applications of genetics in ecological and evolutionary biol, assessment of course partly by exam on course work and continuous assessment based on practical classes and tutorial essays, and partly by dissertation on research project.

Contact Dr James M Parry, University College of Swansea, Singleton Park, Swansea SA2 8PP

Index by subject headings

on page 509

59 Biological sciences: biochemistry

Higher degrees by research

59.1 Aberdeen [illegible]

sulphated polysaccharides in cell growth and haemostasis polysaccharides as therapeutic agents and food additives, glycosaminoglycans, polyamines in regulation of mammalian cell growth, site directed mutagenesis in genes coding for enzymes, DNA repair mechanisms **Contact** Professor HM Keir

59 2 Aston, *Molecular sciences,* MPhil/PhD
59.3 Bath, *Biochemistry,* MSc/PhD
59 4 Belfast, *Biochemistry,* MSc/PhD
59 5 Birmingham, *Biochemistry,* MSc/PhD
59 6 Bristol, *Biochemistry,* MSc/PhD
59.7 Brunel, *Biochemistry,* MPhil/PhD
59.8 Cambridge, *Biochemistry,* MSc/PhD
59 9 Cambridge, *Biochemistry,* MPhil
59.10 Dundee, *Biochemistry,* MSc/PhD
59.11 East Anglia, *Biochemistry,* MPhil/PhD
59:12 Edinburgh, *Biochemistry,* MPhil/PhD
59 13 [illegible]
59.14 [illegible]
59 15 [illegible]
59.16 [illegible]
59.17 [illegible]
59.18 Keele, *Biochemistry,* MSc/PhD
59.19 Kent, *Biological sciences,* MSc/PhD
59 20 Lancaster, *Biochemistry,* MPhil/PhD, supervision available in Dept of Biol Sciences, research interests *mammalian biochem* changes in cellular metabolism during deficiencies of magnesium and potassium, structure and stabilisation by cross linking of fibrous proteins and related [illegible]

59 21 Leeds, *Biochemistry,* MPhil/PhD
59.22 Leicester, *Biochemistry,* MPhil/PhD, supervision available, research interests molecular mech [illegible]

nism of muscle contraction, gene expression and cloning technology, regulation of bacterial intermediary metabolism, cell surface organisation in malignant cells, production of antibiotics by bacteria, energy transduction in aerobic bacteria, enzymology and amino acid metabolism in micro-organisms, insulin synthesis and secretory processes, carbohydrate metabolism, fine structure and reconstruction of A-filaments, hydrodynamics of macromolecular solns, molecular enzymology and structure-function relationship in proteins, biochem events during synchronous nuclear division cycle in plasmodia. **Contact** Registrar (Higher Degrees)

59:23 Liverpool, *Biochemistry,* MSc/PhD; supervision available, research interests in following areas: biochem and biosynthesis of plant triterpenes, sterols and vitamin E; biochem of carotenoids; mass spectrometry; formation and function of terpenoids, steroids and fat soluble vitamins in marine invertebrates; absorption, transport, biosynthesis and metabolism of lipid in animals; mode of action of vitamin A; structure and function of cellular membranes and plasma lipoproteins; microbial metabolism and its regulation; purification of proteins; photosynthesis; molecular properties of hexokinases and other enzymes; control of enzyme activity by covalent modification; chloroplast development; role of lipids in mitochondrial structure and function; regulation of protein breakdown in muscle; recombinant DNA/gene cloning in relation to biochem of hormone action; DNA replication and repair systems; biosynthesis and structure of transfer RNAs; biochem of RNA and DNA of plant tissues; biosynthesis and assembly of penicillin-binding proteins of *E coli;* cloning of characterisation of developmentally regulated genes in *Xenopus;* role of neutrophils in human inflammatory diseases. **Contact** Dr LJ Goad

59:24 Liverpool Poly, *Biochemistry,* MPhil/PhD (CNAA)

59:25 London (Birkbeck), *Biomolecular organisation,* MPhil/PhD

59:26 London (Imperial), *Biochemistry,* MPhil/PhD; supervision available, research interests in molecular biol, protein chem, physiol biochem, neurochem, microbial metabolism, structure; current projects inc: *molecular biology:* studies on *Drosophila* (developmentally related genes), mouse (tumour cells), *Aplysia* (neuropeptide hormones) and *Leishmania* (human parasite) gene expression by recombinant DNA, monoclonal antibody, cloning, transformation and hybridisation techniques; genetic engineering studies on micro-organisms to develop procedures for large-scale production of medically or industrially important products; *protein chemistry:* structure and function of proteins and peptides, especially enzymes involved in protein synthesis and neuropeptides; large-scale purification of enzymes from thermophilic organisms; development of mass spectrometry and other techniques for determining the structures of 'biomolecules' of potential medical, agricultural and industrial importance; protein sequencing; *physiological biochemistry and neurobiology:* comprehensive studies on the characterisation of neuroreceptors both purified and in the membrane, the molecular biology of neuroreceptors, the action of neurotoxins on receptors and on neurotransmitter release; mechanisms of transmitter release and their control, identification of specific transmitter compounds and the applications of these and other studies eg synaptosomes as model nerve terminals and brain superfusion techniques to investigate neurochemical mechanisms underlying epilepsy and dyskinesia; studies on the structure, biosynthesis and turnover of brain peptides, particularly opioid peptides, purinergic nerve transmission; *microbial biochemistry, microbiology and fermentation:* isolation, structure, biosynthesis and mode of action of secondary metabolites of bacteria and fungi, especially mycotoxins; studies on fungal pathogens of plants, particularly elicitor reactions and host-parasite interactions in ergot fungi. **Contact** Dr AG Dickerson

59:27 London (KQC), *Biochemistry,* MPhil/PhD

59:28 London (Queen Mary), *Biological sciences,* MPhil/PhD

59:29 London (RHBC), *Biochemistry,* MPhil/PhD

:30 London (UC), *Biochemistry,* MPhil/PhD

:31 Manchester, *Biochemistry,* MSc/PhD; supervision available; current research inc: *structure and function of biol membranes:* transport systems, protein-lipid interactions, cell adhesion, bacterial cell walls; *protein synthesis and nucleic acids (molecular and genetic aspects):* DNA-binding proteins, endonucleases, cell cycle, gene regulation, conformational studies of proteins and nucleic acids, messenger RNA in plant systems; *protein eng:* computer-based design of hormonal peptides, neuro-active peptides and artificial vaccines, their synthesis and biol assessment; *regulation of metabolism:* hormone action and receptors, liver and brain metabolism, protein turnover, lysosomal storage diseases, tumour proteases, regulation of enzyme activities, intestinal absorption, gastric hormones; *biochem of connective tissues:* structure, synthesis and degradation of connective tissue macromolecules in health and disease; *complex systems:* photobiol, blood clotting. **Contact** Dr Keith Burdett

59:32 Manchester (UMIST), *Biochemistry,* MSc/PhD

59 33 **Newcastle,** *Biochemistry,* MSc/PhD
59 34 **NE London Poly,** *Biology and biochemistry,* MPhil/PhD (CNAA)
59 35 **NE Wales IHE,** *Biochemistry,* MPhil/PhD (CNAA/Salford)
59 36 **Oxford** *Biochemistry* MSc/DPhil supervision available research interests inc biochem applica

vitellogenin genes in Xenopus structure and organisation of complement component genes and the mechanism of complement activation chemotaxis and cell signal transmission in Dic

phototaxis *genetics lab* genetics and nature of some x linked disorders somatic cell genetics using human mouse and other hybrids molecular organisations of human x and y chromosomes population genetics control of developmental processes in *Drosophila* clinical genetics and cytogenetics Contact Dr Peter C Newell
59 37 **Poly of Central London,** *Biochemistry applied microbiology and biotechnology* MPhil/PhD
59 38 **Portsmouth Poly,** *Animal biochemistry and physiology* MPhil/PhD (CNAA)
59 39 **Reading,** *Physiology and biochemistry* MPhil/PhD
59 40 **St Andrews,** *Biochemistry and microbiology* MSc PhD
59 41 **Sheffield,** *Biochemistry* MSc/PhD
59 42 **Southampton,** *Biochemical and physiological sciences* MPhil PhD
59 43 **Stirling** *Biochemistry* MSc/PhD supervision available for research in Dept of Biol Science current interests inc toxicology of marine organisms mechanisms of enzyme action enzyme sub unit interactions protein folding biochem aspects of development spore and seed germination

59 44

of animals and man leukotrienes as mediators in rheumatoid diseases inter relationships betwn

Professor RD Marshall
59 45

membranes biophysical properties of natural and synthetic membranes *metabolic regulation* regulation of metabolism in developing neonatal rat *microbial biochem* yeast cell walls *nursing*

development of measures of nursing care; *pathology:* pathological changes in different strains of ageing rats; *pharmacological biochem:* metabolism and mode of action of drugs; *plant biochem:* cytochrome P-450 in higher plants; *steroid biochem:* effect of pregnancy, pregestogens and contraceptive steroids on drug metabolism; *toxicology:* liver cell culture as model system in toxicology. Contact Dr JAR Genge

59:46 Sussex, *Biochemistry,* MPhil/DPhil; supervision available in following areas of research: regulation of transcription; molecular enzymology, esp of oxidative metalloenzymes; regulation of gene expression in eukaryotes; regulation of insulin secretion; nuclear proteins and subnuclear components; energy conservation in plant mitochondria; regulation of protein synthesis at translational level in mammalian cells and tissues; molecular behaviour of bacterial penicillin-binding proteins; hormonal regulation of carbohydrate metabolism; biochem of polypeptide hormones and growth factors; membrane transport proteins and control of membrane permeability; control of lymphocyte activation; post-translational processing of peptide hormone precursors. Contact Dr RC Bray

59:47 Thames Poly, *Biological sciences,* MPhil/PhD (CNAA)
59:48 Wales (Aberystwyth), *Biochemistry and agricultural biochemistry,* MSc/PhD *See page 267*
59:49 Wales (Bangor), *Biochemistry and soil science,* MSc/PhD
59:50 Wales (Cardiff), *Biochemistry,* MSc/PhD
59:51 Wales (Swansea), *Biological sciences,* MSc/PhD
59:52 Wales (UWIST), *Applied biology,* MSc/PhD
59:53 Warwick, *Biochemistry,* MSc/PhD
59:54 York, *Biology including biochemistry,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

59:55 Aberdeen, *Immunobiology,* MSc
59:56 East Anglia, *Biological sciences,* MSc
59:57 Essex, *Molecular biochemistry,* MSc
59:58 London (Birkbeck), *Biomolecular organisation,* MSc
59:59 London (KQC), *General biochemistry,* MSc
59:60 London (UC), *Applied molecular biology and biotechnology,* MSc
59:61 London (UC), *Biochemistry,* MSc
59:62 Manchester (UMIST), *Bioreactor systems,* MSc/Diploma
59:63 Newcastle, *Biochemistry,* MSc
59:64 NE Wales IHE, *Biochemistry,* MSc (Salford)
59:65 Southampton, *Biochemical pharmacology,* MSc
59:66 Surrey, *Chemical and biochemical sciences and education,* MSc/Diploma
59:67 Surrey, *Clinical biochemistry,* MSc
59:68 Sussex, *Biochemical endocrinology,* MSc
59:69 Sussex, *Biochemistry,* MSc
59:70 Sussex, *Genetic manipulation and molecular biology,* MSc
59:71 Sussex, *Plant biochemistry and bioenergetics,* MSc
59:72 Wales (Aberystwyth), *Biochemistry and agricultural biochemistry,* MSc/Diploma *See page 267*

Certificates and diplomas

59:73 Cambridge, *Biochemistry,* Certificate
59:74 East Anglia, *Biological sciences,* Diploma

University College of Wales, Aberystwyth

Biochemistry and Agricultural *Biochemistry*

MSc/PhD by research

Particular strength in Plant Biochemistry and Microb al Biochemistry Current research in the structu e assembly and functions of membranes electron transfer proteins transport mechan sms b osynthesis and function of porphyrins, caro eno ds and sterc ls natural products of marine organ sms plant polysaccharides m crob al degrada ion of aromatic and alicyclic molecules microb al biochemistry of the rumen so l science and plant product v ty

MSc by taught course

One year courses in Plant Biochem stry or in Soil Science and Plant Productiv ty provide a spec al sed tra n ng A two-year course is ava lable for gradua es in agricul ural sciences or chem stry seeking a general tra n ng in biochem stry Syl abus and research project n the second year by consulta ion w h the student

See also courses 55 11 55 17 and 56 7

Further information from Pos g adua e Admis ions Tutor The Department of B ochemistry UCW Aberystwy h Dyfed SY23 3DD

List of chapter headings and numbers

on pages 42 and 43

60 Biological sciences: biophysics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

60:1 **East Anglia,** *Biophysics,* MPhil/PhD
60:2 **Lancaster,** *Biophysics,* MPhil/PhD
60:3 **Leeds,** *Biophysics,* MPhil/PhD; supervision available for research in following fields: studies of structures and activities of proteins by x-ray crystallographic, spectroscopic and kinetic methods; molecular structures of hormones and drugs; development of interactive computer display methods in study of molecular structure and interactions; structural studies of polysaccharides from plant cell walls by x-ray diffraction and spectroscopy; visco-elastic and hydrodynamic properties of plant cell-wall components; structural studies of membranes and other liq crystalline mesophases by x-ray diffraction, freeze-etch electron microscopy and magnetic resonance spectroscopy; primary structures of fibrous proteins. **Contact** Dr PF Knowles
60:4 **London (Imperial),** *Biophysics,* MPhil/PhD
60:5 **London (KQC),** *Biophysics,* MPhil/PhD
60:6 **London (UC),** *Physiology and biophysics,* MPhil/PhD
60:7 **Manchester,** *Medical biophysics,* MSc/PhD
60:8 **Open,** *Biophysics,* BPhil/MPhil/PhD
60:9 **Oxford,** *Biophysics,* MSc/DPhil
60:10 **Southampton,** *Physics,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

60:11 **East Anglia,** *Biological sciences,* MSc
60:12 **London (Birkbeck),** *Biophysics and bioengineering,* MSc
60:13 **London (Inst Ophthalmology),** *Biophysics and bioengineering,* MSc
60:14 **St Andrews,** *Radiation biophysics,* MSc

Certificates and diplomas

60:15 **East Anglia,** *Biological sciences,* Diploma

61 Biological sciences: botany

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

61 1 Aberdeen *Plant science* MSc/PhD supervision available research interests in following areas plant physiol and biochem esp function of stomata salt relations effects of light and gravity on growth and development root growth and plant proteins ecology esp in relation to Scottish moorland vegetation nutrient cycling effects of pollutants ecology of mycorrhizas morphogenesis electron microscopy and ultrastructural plant cytology taxonomy esp of local hybrid plants tropical botany with sp ref to SE Asia (training in forest botany for students from Asian tropics) *tissue culture and micropropagation* **Contact** Professor CH Gimingham

61 2 Bath, *Plant biology* MSc/PhD

61 3 Belfast, *Botany* MSc/PhD

61 4 [illegible]

and genetic resource conservation conservation of germplasm and pre breeding evaluation of

61 5 Bristol *Botany* MSc/PhD

61 6 Brunel, *Biology* MPhil/PhD

61 7 Cambridge, *Botany* MSc/PhD

61 8 Durham, *Botany* MSc/PhD

61 9 East Anglia, *Plant biology* MPhil/PhD

61 10 Edinburgh *Botany,* MPhil PhD supervision available main research interests in higher plant

fixation formation of graft union host parasite interactions fine structure of plant cells chem taxonomy of Gramineae wide spp hybrids in crop plants systematics and morphogenesis of diatoms cell wall metabolism fungal morphogenesis **Contact** Dr RF Lyndon

61 11 Glasgow, *Botany* MSc/PhD

61 12 Hull, *Plant biology and genetics* MSc/PhD supervision available in following areas *plant biochem* terpenoid metabolism inc phytoalexins *plant phys ol* transport of water and solutes in plants

bacteria *ecological genetics* polymorphism of cyanogenesis in leguminous plants plant animal interactions alien forms of common spp in new roadside verges *plant breeding* grain maize at low temps **Contact** Professor John R Coley Smith

Biological health

61:13 Lancaster, *Plant physiology*, MPhil/PhD
61:14 Leicester, *Botany*, MPhil/PhD
61:15 Liverpool, *Botany*, MSc/PhD; supervision available, current research interests: ecology and physiol of freshwater algae with emphasis on pollution and sewage disposal; taxonomy, ecology and physiol of larger marine algae; S metabolism and ecology of blue-green algae; reclamation of difficult land, adaptation and evolution of plants to heavy metals, heavy metal movement through ecosystems; ecology and evolution of weeds; ecology of soil micro-organisms, taxonomy of actinomycetes, fine structure of fungi, fungal protoplasts, physiol of marine fungi, biol of wood decay fungi, cytology and genetics of *Phytophthora;* ion and water transport in plants and plant cells, physiol basis of adaptation to saline conditions; nutrient film technology, physiol of leaf development and root growth in cocoa, plant tissue culture and micropropagation of crop plants and synthesis of secondary metabolites; permeability properties of chloroplasts. Contact Dr ST Williams
61:16 London (Birkbeck), *Botany*, MPhil/PhD
61:17 London (Imperial), *Plant science*, MPhil/PhD; supervision available for research in Dept of Pure and Applied Biol; research interests inc: *physiol:* photosynthesis: energy transfer, chem of O_2 evolution, electron transport mechanisms, chloroplast structure and function, molecular biol and regulation of gene expression; respiration: electron flux in metabolism; oxidative lignin degradation, secondary product synthesis, differentiation and plantlet regeneration in tissue cultures; *pathology:* mechanisms and induction of disease resistance, determinants of specificity in diseases caused by micro-organisms, role of cell wall degrading enzymes in plant diseases; biol, epidemiology and control of plant diseases esp of tropical crops; biol control of plant diseases; *environmental studies:* ecology of bryophytes and heathland; archaeological charcoals and wood anatomy as environmental indicators; photosynthesis in relation to productivity; sulphur dioxide, ozone, N oxides, acid rain, radionuclides and oil as pollutants damaging plants; remote sensing of vegetation; *timber technology:* ecology and nutrition of micro-organisms colonising wood; movement of water in wood; biol and chem control of wood decay, fate of chem preservatives in environment. Contact Registrar
61:18 London (KQC), *Plant sciences*, MPhil/PhD; supervision available for research, current projects inc: biochem of photosynthesis in micro-organisms and higher plants; molecular biol of hydrogenases and other metallo-enzymes; biol solar energy conversion of H_2-producing biophotolysis systems, biochem of chloroplast development; chloroplast fine structure; molecular biol of chloroplast DNA; seed biol esp seed development, mobilisation of seed reserves during germination, dormancy and viability; mechanisms of action of plant growth substances; photomorphogenesis; regulation and control of biosynthesis of secondary plant products (esp monoterpenes) by plant tissue cultures; plant protoplast fusion and intermediary metabolism; computer simulation of plant morphogenesis; cellular differentiation in xylem and phloem; biol of cell nucleus; pollen analysis and environmental hist of Britain, Middle E and S Europe; ecology of arid and semi-arid environments and of peat forming ecosystems; macrofossil analysis and vegetational hist of Tertiary period; exptl modelling of fossilisation processes. Contact Professor C Barry Cox
61:19 London (Queen Mary), *Biological sciences*, MPhil/PhD
61:20 London (RHBC), *Botany*, MPhil/PhD
61:21 London (UC), *Botany*, MPhil/PhD
61:22 Manchester, *Botany*, MSc/PhD; biological sciences at Univ of Manchester are undergoing major reorganisation; existing Dept of Botany will contribute to two major Depts (Cell and Structural Biology and Environmental Biology) with effect from October 1986; research in progress at present inc: *plant physiol:* intermediary metabolism, photomorphogenesis, stress metabolism, mitochondrial ion transport; *morphogenesis:* differentiation in higher fungi, development in liverworts and mosses, ultrastructure and polypeptide patterns in fern development, development in monocotyledons, root initiation and growth, leaf structure, feeding, reproduction in protozoa, morphogenetic role of microtubules, ultrastructure of bacterial diseases, dinoflagellate structure, x-ray microanalysis; *biochem genetics:* molecular aspects of transport, enzyme control and development in fungi; *plant pathology and mycology:* diseases of temperate and tropical plants, disease control, epidemiology, biochem of resistance, organisation of fungal growth; *ecology, physiol ecology, pollen analysis:* structure and integration of plant communities, effects of pollutants and pathogens, reproductive strategies, peat formation and erosion; *horticulture and crop ecology:* seed germination, seedling estab, plants of disturbed areas, water content and effect on growth and yield, nutrient uptake, soil-less cultures; *fossil plants:* cuticle studies in Mesozoic fossils. Contact Dr Moore

61:23 **Newcastle,** *Plant biology*, MSc/PhD
61:24 **NE London Poly,** *Biology and biochemistry*, MPhil PhD (CNAA)
61:25 **Nottingham,** *Botany*, MPhil PhD
61:26 **Open,** *Biology*, BPhil MPhil PhD
61:27 **Oxford,** *Plant physiology*, MSc DPhil
61.28 **Reading,** *Botany*, MPhil PhD
61:29 **St Andrews,** *Plant biology and ecology*, MSc PhD
61:30 [illegible]

and Al, *biosystematics* chemotaxonomy, numerical taxonomy and cytology of *Allium* evolution and cytotaxonomy of *Erophila* and spp relationships in *Ulex*, distribution and metabolism of polyols and fructans in leafy liverworts Contact Professor AJ Willis

61:31 [illegible]
61:32 [illegible]

61:33 [illegible]
61 34 [illegible]
61:35 [illegible]

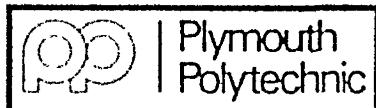
Higher degrees by instruction

Candidates are expected to hold a good honours degree in the sub[illegible] *(normally lasting three months) with submission of a written* [illegible] *a part of these courses*

61 36 [illegible]
61:37 [illegible]
61 38
61 39

Certificates and diplomas

61.40 **Aberdeen,** *Modern botanical methods* [illegible] forestry req professional experience [illegible] approaches and methods relevant [illegible] topics inc plant collection [illegible] survey, exptl design, stat [illegible] tion and glasshouse techn[illegible] morphogenesis, anatomy [illegible] plant growth, tropical [illegible] pollution, resource [illegible]
61 41 **East Anglia,** *Biological* [illegible]
61:42 **London (KQC),** [illegible]



Postgraduate awards?

Read the editorial on pages 17–22

Abbreviations

See pages 31–33

62 Biological sciences: genetics

Higher degrees by research

Cand da es a e expected o l old a good l o u d g ee a b propose to carry o t resea cl Info ma on ab ep l ud g en n tl e En ance equ remen and pe od f ud pa ug apl a e s ud es sect on

62 1 **Aberdeen** *Genetics* MSc/PhD
62 2 **Belfast** *Genet cs* MSc PhD
62 3 **Belfast,** *Med cal genet cs* PhD
62 4 **B rmingham** *Genet cs* MSc PhD up n a a l b c a h (some examples g en) empha n p a app a n q un u test ng of new exp l appr che o d m n n u f g n metrical characters and pred c n o n qu n e f t cs natu e extent and gen c l on qu n e f n u n and t cs mechan sms n ol ed n m h m m p ng and h controls of these p oce e n plan and n m n morphogenes s n p okaryo u ng n p *gene cs* genet c analys of na u n p f h h d p d *Aspe g llus molecula gene* gen ment as clon ng ec ors Contact D M J K
62 5 **Cambr dge** *Genetics* MS PhD
62 6 **East Angl a** *Genet cs* MPh l PhD
62 7 **Ed nburgh** *Genet cs* MPh l PhD
62 8 **Glasgow** *Genet cs* MSc/PhD *See page 274*
62 9 **Hull** *Plant b ology and genetics* MS PhD
62 10 **Leeds** *Cenet cs* MSc/MPh l PhD
62 11 **Leicester** *Genet cs* MPh l PhD upc n a a labl m e t cs populat on genet cs molecula p pul n genet m m d mammal an gene cs beha oural gene c Contact R a H gh
62 12 **Liverpool** *Genet cs* MSc/PhD
62 13 **London (Imperial)** *M crob ology* MPh l PhD
62 14 **London (Queen Mary)** *B olog cal sc ences* MPh l PhD
62 15 **London (UC)** *Genet cs and b ometry* MPh l PhD
62 16 **Manchester** *Genet cs and cell b ology* MSc PhD
62 17 **Newcastle** *Cenetics* MSc/PhD
62 18 **Newcastle** *Human genetics* MSc/PhD
62 19 **NE London Poly** *B ology and b ochem try* MPh l PhD CNAA
62 20 **Nottingham** *Genetics* MPh l PhD
62 21 **Oxford** *B ochem*
62 22 **Portsm**
62 23 **Sheff e**
62 24 **Southa**
62 25 **Strathclyde** *B ology* MSc/PhD l hD
62 26 **Sussex,** *Gene*
62 27
62 28

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research proje (normally lasting three months) with submission of a written report, dissertation or thesis is normall a part of these courses.

62:29 **Birmingham,** *Applied genetics*, MSc
62:30 **East Anglia,** *Biological sciences*, MSc
62:31 **Edinburgh,** *Animal breeding*, MSc/Diploma *See page 274*
62:32 **Wales (Swansea),** *Genetics and its applications*, MSc

Certificates and diplomas

62:33 **Cambridge,** *Genetics*, Certificate
62:34 **East Anglia,** *Biological sciences*, Diploma
62:35 **Edinburgh,** *Genetics*, Diploma *See page 274*
62:36 **London (LSH and TM),** *Human and clinical genetics*, Diploma

63 Biological sciences: microbiology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

63.1 Aberdeen, *Microbiology,* MSc/PhD, supervision available current research interests mecha

yeast mycelial dimorphism, transhyphal electrical currents and polarity of cell growth **Contact** Professor WA Hamilton

63·2 [illegible]

63 3

63·4

63 5

63 6 Bristol, *Microbiology,* MSc/PhD

63.7 Brunel, *Biology,* MPhil/PhD

63 8 [illegible]

63 9

63:10

63.11

63.12

63 13

63 14 MPhil/PhD

63.15 [illegible]

63 16 Lancaster, *Microbiology,* MPhil/PhD

63.17 Leeds, *Microbiology,* MPhil/PhD, supervision available for research, current research immunol (inc monoclonal antibody), genetic (inc gene cloning) and biochem investigations of function of herpes virus proteins with sp ref to those involved in virus DNA replication, virus interaction with antibody and cross reactions betwn members of gp, mechanism of action of antibiotics, detection of bacterial metabolic products in clinical specimens, plasmid transfer in *Staphylococcus aureus,*

antibiotic regimes, infections in patients undergoing continuous ambulatory peritoneal dialysis **Contact** Professor DH Watson

63.18 Leicester, *Microbiology,* MPhil/PhD

63.19 [illegible]

63.20 [illegible]

63 21 [illegible]

antibacterial agents, gaseous sterilants and their biol monitoring,

Biological, heal

organisation of plant viruses and plant genetic manipulation; double stranded RNA viruses and plant pathogenic fungi; molecular basis of virus pathogenicity and host resistance. **Contact** Registrar

63:22 **London (KQC),** *Microbiology,* MPhil/PhD; supervision available, research interests inc: fermentation sciences and biotechnology inc production of microbial metabolites and study of mixed cultures; theoretical and exptl ecology of microbial populations inc predator-prey relationships; photobioreactors; algal physiol and biochem inc intra-cellular protein degradation, control of protein synthesis and RNA metabolism; growth dynamics and cell cycle events of bacteria, yeasts and filamentous fungi, fungal physiol and ultrastructure, food microbiol inc water relations of food micro-organisms, genetics in relationship to microbial physiol, mechanism of genetic recombination esp initiation and control of recombination. **Contact** Professor S John Pirt

63:23 **London (Queen Mary),** *Biological sciences,* MPhil/PhD

63:24 **London (UC),** *Microbiology,* MPhil/PhD

63:25 **Manchester,** *Bacteriology and virology,* MSc/PhD

63:26 **Manchester,** *Microbiology,* MSc/PhD

63:27 **Newcastle,** *Microbiology,* MSc/PhD

63:28 **NE London Poly,** *Biology and biochemistry,* MPhil/PhD (CNAA)

63:29 **Oxford,** *Biochemistry,* MSc/DPhil

63:30 **Oxford,** *Microbiology, mycology and pathology,* MSc/DPhil; supervision available, research interests inc: *Microbiol Unit:* metabolism of micro-organisms and its regulation, genetics of bacteria and their viruses, development of bacterial spores, formation and functioning of ribosomes; *NERC Inst of Virology:* virus diseases of insects, their structure and replication, immunol and biophysical characterisation, epidemiology; viruses of forest trees; *Dept of Plant Sciences:* mycological studies, soil microbiol, mycorrhizas, microbial symbiosis, root-disease fungi; microbial genetics. **Contact** Professor J Mandelstam

63:31 **Poly of Central London,** *Biochemistry, applied microbiology and biotechnology,* MPhil/PhD (CNAA)

63:32 **Portsmouth Poly,** *Microbiology,* MPhil/PhD (CNAA)

63:33 **Reading,** *Microbiology,* MPhil/PhD

63:34 **St Andrews,** *Biochemistry and microbiology,* MSc/PhD

63:35 **Salford,** *Biological sciences,* MSc/PhD

63:36 **Sheffield,** *Microbiology,* MSc/PhD

63:37 **Stirling,** *Biology,* MSc/PhD

63:38 **Strathclyde,** *Applied microbiology,* MSc/PhD; supervision available, research interests inc: *physiol and biochem aspects of fungal metabolism:* factors controlling differentiation and development in filamentous moulds of econ importance, metabolic control and cell biol of sporulation of yeast in submerged culture, 'killer' phenomenon in yeast, biochem of citric acid production by commercially-used fungi; *genetics of yeasts:* flocculation of yeast, cloning of yeast genes and development of novel strains for industrial use by genetic eng; *kinetics of reproduction and metabolism of bacteria, fungi and algae:* effects of imposed environmental changes in growth of bacteria, utilisation of gaseous substrates in submerged culture, production of methane and value-added chemicals from org waste; *aquatic microbiol:* primary production in sea lochs, microbial flora of estuaries; *bacteria in relation to health and food;* interaction betwn micro-organisms important in food industry, mycotoxins, medical bacteriology, treatment of industrial, domestic and agricultural effluents, landfill; *fermentation technology:* fermentation processes, novel disc-fermenter, microbiol and biochem of food fermentations. **Contact** Professor JE Smith

63:39 **Surrey,** *Microbiology,* MPhil/PhD

63:40 **Thames Poly,** *Biological sciences,* MPhil/PhD (CNAA)

63:41 **Wales (Aberystwyth),** *Botany and microbiology,* MSc/PhD

63:42 **Wales (Cardiff),** *Microbiology,* MSc/PhD

63:43 **Wales (Swansea),** *Biological sciences,* MSc/PhD

63:44 **Wales (UWIST),** *Applied biology,* MSc/PhD

63:45 **Warwick,** *Microbiology,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

63 46 **East Anglia,** *Biological sciences,* MSc
63 47 [illegible]
63 48 [illegible]
63 49 [illegible]
63 50 [illegible]
63 51 [illegible]
63 52 **Strathclyde,** *Food science and microbiology,* MSc
63.53 [illegible]
63 54 [illegible]
63 55 [illegible]

Certificates and diplomas

63 56 **Dundee,** *Microbiology,* Diploma
63 57 **East Anglia,** *Biological sciences,* Diploma
63 58 **Heriot-Watt,** *Industrial microbiology,* Diploma
63 59 **Manchester,** *Bacteriology,* Diploma
63 60 **Strathclyde,** *Applied microbiology,* Diploma

Which course?

See chapter headings on pages 42 and 43 for cognate subjects

66 Food science and technology (including dietetics and nutrition)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

66:1 **Bath,** *Microbiology*, MSc PhD
66:2 **Belfast,** *Agricultural and food chemistry*, MAgr MSc PhD
66:3 **Belfast,** *Agricultural and food microbiology*, MAgr MSc PhD
66:4 **Belfast,** *Food science*, MSc PhD
66:5 **Birmingham,** *Malting and brewing*, MSc PhD
66:6 **Bristol,** *Agriculture and horticulture*, MSc PhD
66:7 **East Anglia,** *Food science*, MPhil PhD
66:8 **Heriot-Watt,** *Brewing and biological sciences*, MSc PhD
66:9 **Humberside CHE (Hull),** *Science and food technology*, MPhil PhD (CNAA/various univs)
66:10 **Leeds,** *Food science*, MPhil/PhD: supervision available for research: interests inc: enzymes in foods in relation to effects on quality of fresh foods, fate during thermal food processing and methods of enzymatic analysis; chem of carbohydrate components of foods esp pectins; rheological properties of cereal and colloidal food systems and laser light scattering of food emulsions; computer simulation of colloidal dispersions; interactions using radioactive isotopes betwn food additives and food components during processing, storage and preparation; light microscopy of meat, starches, emulsified foods and textured protein foods and histochemical studies on food components; problems in food eng inc physics of mixing processes and math modelling of heat and mass transfer in food processing operations; studies on natural and synthetic food colouring agents in relation to structure, stability and reactivity; analysis and fate of nutrients, such as vitamins and additives during thermal processing; analysis and origin of flavour substances in raw materials and food products; Research Council studentships available. Contact Professor David S Robinson
66:11 **Leeds Poly,** *Dietetics*, MPhil/PhD (CNAA)
66:12 **London (KQC),** *Food science*, MPhil/PhD
66:13 **London (KQC),** *Nutrition*, MPhil/PhD
66:14 **Manchester Poly,** *Food manufacture and distribution*, MPhil/PhD (CNAA)
66:15 **Nottingham,** *Applied biochemistry and food science*, MPhil/PhD
66:16 **Oxford Poly,** *Catering management*, MPhil/PhD (CNAA)
66:17 **Poly of North London,** *Food and biological sciences*, MPhil/PhD (CNAA)
66:18 **Reading,** *Food science*, MPhil/PhD
66:19 **Reading,** *Food technology*, MPhil/PhD
66:20 **Sheffield City Poly,** *Hotel and catering studies and home economics*, MPhil/PhD (CNAA)
66:21 **South Bank Poly,** *Applied biology and food science*, MPhil/PhD
66:22 **Strathclyde,** *Food science*, MSc/PhD; supervision available within Dept of Bioscience and Biotechnology; research interests inc: *lipid chem:* detailed lipid chem of cereals and cereal products, protein-lipid interactions in breadmaking; *starches:* chem and physical properties of cereal starches, swelling and gelatinisation, enzyme susceptibility, fine-structure and dimensions of starch granules, amylose-lipid complexes; *heat resistance of bacterial spores:* mechanisms that enable spores to survive high temps and estab of environments that reduce their heat resistance; *bacterial exoenzymes* proteases and lipases of psychrophilic bacteria; *fluorochrome staining of bacteria:* development of new microscopical techniques based on direct staining of micro-organisms and fluorochromes; *food polysaccharides* polysaccharides that play important role in rheology and texture of foodstuffs; *food flavours* contributions of individual cpds and flavour notes to overall flavour and acceptability, mechanisms by which chem senses detect and interpret

[illegible] amylase inhibitors Contact [illegible]

66.23 [illegible]
66.24 [illegible]

[illegible] by instruction

[illegible] project [illegible]

66.25 Birmingham, *Brewing science*, MSc
66.26 [illegible] MSc [illegible] (good hons deg in biol sciences or [illegible]) [illegible] carcass anatomy biochem and [illegible]

66.27 [illegible]
66.28 [illegible] of food [illegible] to food [illegible] search [illegible]
66.29 [illegible] meat [illegible] and [illegible] food [illegible]

66.30 [illegible]
66.31 [illegible]
66.32 [illegible]
66.33 [illegible]
66.34 [illegible]
66.35 Reading, *Food process[illegible]*
66.36 Reading, *Food science*, MSc
66.37 Reading, *Food technology*, MSc
66.38 South Bank Poly, *Food analysis and composition*, MSc
66.39 Strathclyde, *Food science and microbiology*, MSc

Certificates and diplomas

66.40 Heriot Watt, *Brewing*, Diploma
66.41 Humberside CHE (Hull), *Food technology*, Diploma
66.42 Leeds, *Food science*, Diploma
66.43 Leeds Poly, *Dietetics*, Diploma
66.44 London (KQC), *Dietetics*, Diploma
66.45 London (KQC), *Food resources related to community development*, Diploma
66.46 Strathclyde, *Food composition and processing*, Diploma

Overseas students

See editorial on page 7 onwards for information on UK postgraduate study

67 Land use (including estate management)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

- **67 1 Aberdeen,** *Land economy* MLitt/PhD
- **67 2 Cambridge,** *Land economy* MSc/PhD
- **67 3 London (Wye),** *Environmental studies and countryside planning* MPhil/PhD
- **67 4 Manchester Poly,** *Architecture and landscape* MPhil (CNAA)
- **67 5 Paisley CT,** *Land economics* MPhil/PhD (CNAA)
- **67 6 Reading,** *Land management and development* MPhil/PhD
- **67 7 Sheffield,** *Landscape architecture,* MA/PhD supervision available research interests inc reclamation of derelict land industrial development in countryside development of landscape evaluation techniques landscape design problems in urban areas nature in cities rural landscape National Parks specific staff interests children s play landscape architect in local govt development control urban open space landscape design hist and methodology urban landscape design landscape construction landscape horticulture landscape practice landscape design and practice hist landscape restoration urban ecology woodlands site conservation pollution nature conservation (rural and urban) use of urban greenspace land reclamation microcomputers **Contact** Anne R Beer
- **67 8 Thames Poly,** *Architecture and landscape* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

- **67 9 Cambridge** *Land economy* MPhil
- **67 10 Cranfield (Silsoe),** *Land resource management* MSc
- **67 11 Edinburgh** *Landscape architecture,* MPhil
- **67 12** [illegible]
- **67 13** [illegible]
- **67 14** [illegible]
- **67 15** [illegible]
- **67 16** [illegible]
- **67 17** [illegible]
- **67 18** [illegible]
- **67 19** [illegible]
- **67 20** [illegible]
- **67 21** [illegible]
- **67 22** [illegible]
- **67 23** [illegible] *1* project work formation of landscape (ecological and horticultural studies) landscape of land use (land use studies) landscape design (design and construction studies) *yr 2* formation of landscape landscape design (design and construction studies) sp studies **Contact** Anne R Beer
- **67 24 Wales (Bangor),** *Rural resource management* MSc/Diploma 1c yr f t *course content* scientific and conceptual basis of environmental management principles and practice of land use case studies from temperate and tropical areas dissertation (new course 1986) **Contact** Dr M [illegible]

Certificates and diplomas

67:25 **Aberdeen,** *Land economy*, Diploma
67:26 **Cranfield (Silsoe),** *Land resources planning*, Diploma
67:27 **Edinburgh,** *Landscape studies*, Diploma
67:28 **Leeds Poly,** *Landscape architecture*, Diploma
67:29 **Manchester Poly,** *Landscape architecture*, Diploma

68 Medical and dental sciences

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section.

68 1 **Aberdeen,** *Anatomy,* MSc/PhD *See page 298*
68 2 **Aberdeen,** *Bacteriology,* PhD
68 3 **Aberdeen,** *Biomedical physics and bioengineering* MSc/PhD
68 4 **Belfast,** *Medical and dental sciences,* MSc/PhD
68 5 [illegible]
68 6 [illegible]
68 7 [illegible]

adenoviruses and Epstein Barr virus molecular and cell biol of virus-cell interactions immune [illegible]

68 8 **Birmingham,** *Clinical chemistry,* MSc/PhD
68 9 **Birmingham,** *Clinical genetics,* MSc/PhD
68 10 **Birmingham,** *Immunology,* MSc/PhD
68 11 **Birmingham,** *Medical microbiology,* MSc/PhD
68 12 **Birmingham,** *Paediatrics and child health* MSc/PhD
68 13 **Birmingham,** *Social medicine,* MSc/PhD
68 14 **Birmingham,** *Surgery,* MSc/PhD
68 15 **Birmingham Poly,** *Health sciences,* MPhil/PhD (CNAA)
68 16 **Bradford,** *Biomedical sciences* MPhil/PhD
68 17 **Bristol,** *Anaesthesia,* MSc/PhD
68 18 **Bristol,** *Anatomy* MSc/PhD
68 19 **Bristol,** *Community health* MSc/PhD
68 20 **Bristol,** *Dentistry,* MDS/MSc/PhD
68 21 **Bristol,** *Laryngology, rhinology and otology,* MSc/PhD
68 22 **Bristol,** *Medicine,* MSc/PhD
68 23 **Bristol,** *Mental health,* MSc/PhD
68 24 **Bristol,** *Obstetrics and gynaecology,* MSc/PhD
68 25 **Bristol,** *Ophthalmology,* MSc/PhD
68 26 **Bristol,** *Pathology,* MSc/PhD
68 27 **Bristol,** *Radiodiagnosis,* MSc/PhD
68 28 **Bristol,** *Surgery* MSc/PhD
68 29 **Brunel,** *Biology,* MPhil/PhD
68 30 **Cambridge,** *Anatomy,* MSc/PhD
68 31 **Cambridge,** *Clinical biochemistry,* MSc/PhD
68 32 **Cambridge,** *Clinical oncology and radiotherapeutics,* MSc/PhD
68 33 **Cambridge,** *Community medicine* MSc/PhD
68 34 **Cambridge,** *Haematological medicine,* MSc/PhD
68 35 **Cambridge,** *Medicine,* MSc/PhD
68 36 **Cambridge,** *Obstetrics and gynaecology,* MSc/PhD
68 37 **Cambridge,** *Paediatrics,* MSc/PhD

68:38 Cambridge, *Pathology*, MSc/PhD
68:39 Cambridge, *Psychiatry*, MSc/PhD
68:40 Cambridge, *Radiology*, MSc/PhD
68:41 Cambridge, *Surgery*, MSc/PhD
68:42 City, *Clinical communication studies*, MPhil/PhD
68:43 Dorset IHE (Poole), *Nursing and social service*, MPhil/PhD (CNAA)
68:44 Dundee, *Anaesthesia*, MMSc/PhD
68:45 Dundee, *Anatomy*, MMSc/PhD
68:46 Dundee, *Biochemical medicine*, MMSc/PhD
68:47 Dundee, *Child health*, MMSc/PhD
68:48 Dundee, *Community medicine*, MMSc/PhD
68:49 Dundee, *Conservative dentistry*, MDSc/PhD
68:50 Dundee, *Dental prosthetics*, MDSc/PhD
68:51 Dundee, *Dental surgery*, MDSc/PhD
68:52 Dundee, *Dermatology*, MMSc/PhD
68:53 Dundee, *Medical education*, MSc/PhD
68:54 Dundee, *Medical microbiology*, MSc/PhD
68:55 Dundee, *Medicine (including cardiology)*, MMSc/PhD
68:56 Dundee, *Obstetrics and gynaecology*, MMSc/PhD
68:57 Dundee, *Ophthalmology*, MMSc/PhD
68:58 Dundee, *Orthodontics and child dental health*, MDSc/PhD
68:59 Dundee, *Orthopaedic and traumatic surgery*, MMSc/PhD
68:60 Dundee, *Pathology*, MMSc/PhD
68:61 Dundee, *Periodontology and community dentistry*, MDSc/PhD
68:62 Dundee, *Psychiatry*, MMSc/PhD
68:63 Dundee, *Surgery*, MMSc/MSSc/PhD
68:64 Edinburgh, *Child life and health*, MPhil/PhD
68:65 Edinburgh, *Clinical chemistry*, MPhil/PhD
68:66 Edinburgh, *Clinical surgery*, MPhil/PhD
68:67 Edinburgh, *Dermatology*, MPhil/PhD
68:68 Edinburgh, *Genito-urinary medicine*, MPhil/PhD
68:69 Edinburgh, *Immunology and immunopathology*, MPhil/PhD
68:70 Edinburgh, *Obstetrics and gynaecology*, PhD
68:71 Edinburgh, *Orthopaedic surgery*, MPhil/PhD
68:72 Edinburgh, *Surgery*, MPhil/PhD
68:73 Glasgow, *Dentistry*, MSc(MedSci)/PhD
68:74 Glasgow, *Medicine*, MSc(MedSci)/PhD
68:75 Hull, *Nursing studies*, MSc/MPhil/PhD
68:76 Keele, *Biological sciences*, MSc/PhD
68:77 Keele, *Communication and neuroscience*, MSc/PhD
68:78 Leeds, *Anatomy*, MPhil/PhD, supervision available; areas of research interest. development and growth of skeletal system, biomechanics of vertebral column; structure and function of pituitary gland, locomotory behaviour of cells in culture, changes in skeletal muscle in muscular dystrophies regeneration in CNS, human evolution, specific projects being undertaken· investigation of structure of cartilage in chondrodystrophic mice, formation of osteophytes in abnormally stressed vertebral column, contact induced spreading of epithelial cells in culture, organ culture and cytology of pituitary gland, use of complex methods of shape analysis in interpretation of fossil evidence **Contact** Professor WJ Moore
68:79 Leeds, *Cardiovascular studies*, MPhil/PhD, supervision available, current research inc. cardiac receptors and reflexes, dynamics of heart, nervous mechanisms of cardiovascular control, reflex control of veins, exercise physiol in normal and diseased man, non-invasive investigation of patients with cardiac disease **Contact** Dr PN McWilliam
68:80 Leeds, *Chemical pathology*, MPhil/PhD
68:81 Leeds, *Clinical medicine*, MPhil/PhD
68:82 Leeds, *Dentistry*, MDSc/PhD

68.83 [illegible]
studies of visual perception and image processing radionuclide imaging, applications of electronics and microcomputers to clinical research interactions of ultrasound with biol materials ultrasonic diagnosis of arterial disease Contact Dr MS Chesters
68.84 **Leeds Poly,** *Health and applied sciences*, MPhil/PhD (CNAA)
68 85 **Leicester,** *Anaesthesia*, MPhil/PhD
68.86 **Leicester,** *Anatomy*, MPhil/PhD
68 87 **Leicester,** *Medicine*, MPhil/PhD
68.88 **Leicester,** *Pathology*, MD/MPhil/PhD
68 89 **Leicester,** *Psychiatry*, MPhil/PhD
68 90 **Leicester,** *Surgery*, MPhil/PhD
68 91 **Liverpool,** *Medical microbiology*, MSc/PhD/MD
68 92 **Liverpool,** *Tropical medicine*, PhD
68.93 [illegible]
68 94 [illegible]
68.95 [illegible]
68 96 [illegible]
68.97 [illegible]
68.98 [illegible]
neurophysiol, neurosurgical surgery, neuro-otology, radiology, clinical neurophysiol exptl [illegible]
68.99 [illegible]
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68 101 [illegible]
68:102 [illegible]
68.103 [illegible]
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68.108 [illegible]
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68.110 [illegible]
68:111 **London (Guy's & St Thomas'),** *Medical sciences*, MSc/PhD
68.112 [illegible]
68 113 [illegible]
68.114 [illegible]
68.115 [illegible]
68:116 [illegible]
68 117 [illegible]
68:118 [illegible]
68 119 **Manchester,** *Dentistry*, MSc/PhD
68.120 **Manchester,** *Medical biophysics*, MSc/PhD
68.121 **Manchester,** *Medicine*, MSc/PhD
68:122 **Newcastle,** *Medicine and dentistry*, MSc/MDS/PhD
68.123 **NE London Poly,** *Paramedical sciences*, MPhil/PhD (CNAA)
68.124 **Nottingham,** *Medical sciences*, MPhil/PhD
68.125 **Oxford,** *Anaesthetics*, MSc/DPhil
68.126 **Oxford,** *Anatomy*, MSc/DPhil
68 127 **Oxford,** *Cancer research*, MSc/DPhil
68.128 **Oxford,** *Cardiovascular medicine*, MSc/DPhil

68:129 Oxford, *Clinical biochemistry*, MSc/DPhil
68:130 Oxford, *Clinical medicine*, MSc/DPhil
68:131 Oxford, *Clinical neurology*, MSc/DPhil
68:132 Oxford, *Clinical pathology*, MSc/DPhil
68:133 Oxford, *Community medicine and general practice*, MSc/DPhil
68:134 Oxford, *Experimental psychology*, MSc/MLitt/DPhil
68:135 Oxford, *Obstetrics and gynaecology*, MSc/DPhil
68:136 Oxford, *Ophthalmology*, MSc/DPhil
68:137 Oxford, *Orthopaedic surgery and traumatology*, MSc/DPhil
68:138 Oxford, *Paediatrics*, MSc/DPhil
68:139 Oxford, *Pathology*, MSc/DPhil
68:140 Oxford, *Psychiatry*, MSc/DPhil
68:141 Oxford, *Radiology*, MSc/DPhil
68:142 Oxford, *Surgery*, MSc/DPhil
68:143 Poly of Central London, *Biomedical research*, MPhil/PhD (CNAA)
68:144 St Andrews, *Anatomy and experimental pathology*, MSc/PhD
68:145 Sheffield, *Anaesthetics*, MMedSci/PhD
68:146 Sheffield, *Anatomy and cell biology*, MMedSci/MPhil/PhD
68:147 Sheffield, *Community medicine*, MMedSci/PhD
68:148 Sheffield, *Dental studies*, MMedSci/PhD
68:149 Sheffield, *Medical physics and clinical engineering*, MMedSci/PhD
68:150 Sheffield, *Medicine*, MMedSci/PhD
68:151 Sheffield, *Obstetrics and gynaecology*, MMedSci/PhD
68:152 Sheffield, *Ophthalmology*, MMedSci/PhD
68:153 Sheffield, *Orthopaedics*, MMedSci/PhD
68:154 Sheffield, *Paediatrics*, MMedSci/PhD
68:155 Sheffield, *Pathology*, MMedSci/PhD
68:156 Sheffield, *Psychiatry*, MMedSci/PhD
68:157 Sheffield, *Surgery*, MMedSci/PhD
68:158 Southampton, *Anaesthetics*, MPhil/PhD
68:159 Southampton, *Biochemical and physiological sciences*, MPhil/PhD
68:160 Southampton, *Chemical pathology and human metabolism*, MPhil/PhD
68:161 Southampton, *Child health*, MPhil/PhD
68:162 Southampton, *Community medicine and medical statistics*, MPhil/PhD
68:163 Southampton, *Environmental epidemiology*, MPhil/PhD
68:164 Southampton, *Geriatric medicine*, MPhil/PhD
68:165 Southampton, *Haematology*, MPhil/PhD
68:166 Southampton, *Health care evaluation*, MPhil/PhD
68:167 Southampton, *Human morphology*, MPhil/PhD
68:168 Southampton, *Human reproduction and obstetrics*, MPhil/PhD
169 Southampton, *Medical oncology*, MPhil/PhD
170 Southampton, *Medicine*, MPhil/PhD
ɔ.171 Southampton, *Microbiology*, MPhil/PhD
68:172 Southampton, *Orthopaedic surgery*, MPhil/PhD
68:173 Southampton, *Pathology*, MPhil/PhD
68:174 Southampton, *Primary medical care*, MPhil/PhD
68:175 Southampton, *Psychiatry*, MPhil/PhD
68:176 Southampton, *Rehabilitation*, MPhil/PhD
68:177 Southampton, *Renal medicine*, MPhil/PhD
68:178 Southampton, *Surgery*, MPhil/PhD
68:179 South Bank Poly, *Nursing and community health studies*, MPhil/PhD (CNAA)
68:180 Strathclyde, *Immunology*, MSc/PhD; supervision available: research interests inc: *control of autoimmunity in animals and man*: use of protein and steroid hormones in immunoregulation; development of new cpds with novel profiles; *monoclonal antibodies:* rodent, for use as immunodiagnostic agents in the detection of bacterial infections, pregnancy/cancer serum pro-

immunoparasitology immunological aspects and vaccine development in Leishmaniasis *human T lymphocyte hybrids* identification of lymphokines responsible for control of B-cell growth and differentiation and induction of suppressor T-cells in kidney disease **Contact** Professor W H Stimson

68 181 Strathclyde, *Pharmacy* MSc/PhD
68 182 Surrey, *Biochemistry,* MPhil/PhD
68 183 Surrey, *Industrial and environmental health and safety* MPhil/PhD
68 184 Thames Poly, *Biological sciences and environmental health* MPhil/PhD (CNAA)
68 185 Trent Poly, *Building and environmental health* MPhil/PhD (CNAA)
68 186 [illegible]
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68 207 [illegible]
68 208 [illegible]
68 209 [illegible] PhD
68 210 Wales (C of Medicine), *Tuberculosis and chest diseases* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

68 211 Aberdeen [illegible] MSc
68 212 [illegible]
68 213 [illegible] *See page 297*
68 214 [illegible]
68 215 Aberdeen, *Psychotherapy* MMedSci
68 216 Birmingham *Clinical psychology* MSc
68 217 Birmingham, *Immunology* MSc
68 218 Birmingham, *Toxicology* MSc

68:219 **Bristol,** *Dentistry,* MSc
68:220 **Bristol,** *Medical building design,* MSc/Diploma
68:221 **Brunel,** *Applied immunology,* MSc/Diploma
68:222 **Cambridge,** *History of medicine,* MPhil
68:223 **Dundee,** *Analytical biochemistry,* MSc, 1 yr f-t; course covering such analytical techniques as chromatography (glc, tlc, hplc), mass spectrometry (GC-MS, LC-MS), radio-isotope techniques and immuno-assay, centrifugal fast analysers, automated analysis, photometric and electrochem methods illustrating their application in biomedical sciences: **Contact** Dr JD Baty
68:224 **Dundee,** *Dental science,* MDSc
68:225 **Dundee,** *Environmental health,* MSc
68:226 **Dundee,** *Medical science,* MMSc
68:227 **Dundee,** *Public health,* MPH
68:228 **Edinburgh,** *Clinical psychology,* MPhil
68:229 **Edinburgh,** *Community health,* MSc/Diploma
68:230 **Edinburgh,** *Nursing administration,* MSc/Diploma
68:231 **Edinburgh,** *Nursing education,* MSc/Diploma
68:232 **Edinburgh,** *Psychiatry,* MPhil
68:233 **Exeter,** *Clinical psychology,* MSc
68:234 **Glasgow,** *Clinical psychology,* MAppSci
68:235 **Glasgow,** *Forensic toxicology,* MSc/Diploma
68:236 **Glasgow,** *Medical sciences,* MSc(MedSci)
68:237 **Leeds,** *Cardiovascular studies,* MSc
68:238 **Leeds,** *Clinical biochemistry,* MSc
68:239 **Leeds,** *Clinical psychiatry,* MMedSc
68:240 **Leeds,** *Clinical psychology,* MSc, 2 yrs f-t; abnormal and clinical psychol, psychiatry, biol bases of behaviour; *course inc:* assessment, therapeutic and research methods; clinical experience under supervision in local hospitals (recognised by DHSS as basic professional training). **Contact** Dr N Sheehy
68:241 **Leeds,** *Dental surgery,* MDSc
68:242 **Leeds,** *General practice,* MMedSc
68:243 **Leeds,** *Medical physics,* MSc, 2 yrs f-t or p-t (hons deg in physics or equiv req); p-t students should be employed in hospital dept or similar inst in N England; *syllabus:* inc radiation physics and dosimetry, anatomy and physiol, disease in man, physics in radiotherapy and radiodiagnosis, medical imaging, nuclear medicine, ultrasonics, radiobiol, radiation and gen hospital safety, medical electronics, physiol measurement, stats, digital computing; plus practical work, project and exam. **Contact** Dr MS Chesters
68:244 **Leeds,** *Public health,* MPH
68:245 **Leeds,** *Steroid endocrinology,* MSc
68:246 **Leicester,** *Clinical psychology,* MSc
68:247 **Leicester,** *Medical statistics and information technology,* MSc/Diploma
68:248 **Liverpool,** *Applied parasitology and medical entomology,* MSc/MVSc
68:249 **Liverpool,** *Clinical psychology,* MPsychol
68:250 **Liverpool,** *Community health,* MCommH
68:251 **Liverpool,** *Tropical medicine,* MSc
68:252 **London (Cardiothoracic Inst),** *Human and applied physiology,* MSc
68:253 **London (Inst Neurology),** *Human communication,* MSc
68:254 **London (Inst Neurology),** *Neurochemistry,* MSc
68:255 **London (Inst Ophthalmology),** *Neurochemistry,* MSc
68:256 **London (Inst Orthopaedics),** *Orthopaedics,* MSc
68:257 **London (Inst Psychiatry),** *Clinical psychology,* MPhil
68:258 **London (Inst Psychiatry),** *Neurochemistry,* MSc
68:259 **London (Inst Psychiatry),** *Psychiatry,* MPhil
68:260 **London (Inst Psychiatry),** *Quantitative methods in behavioural science,* MSc
68:261 **London (KQC),** *Forensic science,* MSc
68:262 **London (KQC),** *Immunology,* MSc
68:263 **London (KQC),** *Medical immunology,* MSc

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68 301 Manchester, *Computational methods in medical science*, MSc
68 302 Manchester, *Dentistry*, MSc
68 303 Manchester, *Nursing* MSc
68 304 Manchester, *Occupational hygiene*, MSc
68 305 Manchester, *Psychiatry* MSc
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68 310 NE London Poly, *Biochemical immunology*, MSc
68 311 NE London Poly, *Clinical psychology* MSc (CNAA)
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developmental psychol, therapeutic techniques, conditioning and learning, psychopathology, child psychiatry, research skills, psychophysiol; psychobiol, adolescence and middle yrs, biol bases of psychol disorders, therapeutic techniques; neuropsychology, adult psychiatry, options, personality, phil of science, applied social psychol, therapeutic techniques; clinical neurology, psychophysiol, options, psychopharmacotherapy, psychopathology, geropsychology, therapeutic techniques, assessment methods inc exams, coursework, case reports, clinical supervisor's reports, project report. Contact Academic Registrar

68:315 **Sheffield,** *Anatomy and cell biology*, MMedSci
68:316 **Sheffield,** *Oral pathology*, MMedSci
68:317 **Sheffield,** *Oral surgery*, MMedSci
68:318 **Sheffield,** *Orthodontics*, MMedSci
68:319 **Southampton,** *Audiology*, MSc/Diploma Certificate
68:320 **Southampton,** *Rehabilitation studies*, MSc
68:321 **Strathclyde,** *Forensic science*, MSc/Diploma, 1c-2c yrs f-t (MSc), 9 mths f-t (Diploma) (hons deg in biol, biochem, chem, pharmacy, physiol or equiv req); *course content:* chem, toxicology, serology, study of hairs, fibres and vegetation and of questioned documents; applications and techniques, interpretation of data, presentation of evidence in court, phil of forensic scientist's approach to case, lab work, practical application of techniques, sp emphasis on investigation of materials from actual or simulated cases, presentation of technical and court reports; period of attachment (usually 4 weeks) to operational forensic science lab; exam, assessment of coursework, report Contact Professor WJ Tilstone
68:322 **Surrey,** *Clinical biochemistry*, MSc
68:323 **Surrey,** *Clinical psychology*, MSc
68:324 **Surrey,** *Medical microbiology*, MSc/Diploma
68:325 **Surrey,** *Medical physics*, MSc/Diploma
68:326 **Surrey,** *Medical psychology*, MSc/Diploma, 1c yr f-t (hons deg in psychol or equiv qual and background in science req); specialised training for psychol grads with clinical interests to work in hospital units and medical research centres; aims to give thorough grounding in medical psychol and experience in various medical specialties in which psychol is currently being applied, does not inc practical clinical training, *course content:* research, teaching techniques, health education, medical specialties, professional inter-personal skills; exam, coursework, dissertation for MSc. Contact Dr H McGurk
68:327 **Surrey,** *Toxicology*, MSc
68:328 **Ulster,** *Medical laboratory sciences*, MSc
68:329 **Ulster,** *Nursing studies*, MSc
68:330 **Wales (C of Medicine),** *Medical microbiology*, MSc
68:331 **Wales (C of Medicine),** *Nursing studies*, MN
68:332 **Warwick,** *Psychotherapy*, MSc

Certificates and diplomas

68:333 **Aberdeen,** *Immunology*, Diploma
68:334 **Aberdeen,** *Medical radiodiagnosis*, Diploma
68:335 **Aberdeen,** *Psychotherapy*, Diploma
68:336 **Birmingham Poly,** *Advanced clinical studies (speech therapy)*, Diploma
68:337 **City,** *Clinical communication studies*, Diploma
68:338 **Dundee,** *Odontology*, Diploma
68:339 **Edinburgh,** *Medical radiodiagnosis*, Diploma
68:340 **Edinburgh,** *Medical radiotherapy*, Diploma
68:341 **Liverpool,** *Tropical child health*, Diploma
68:342 **London (Cardiothoracic Inst),** *Cardiac medicine*, Diploma
68:343 **London (Cardiothoracic Inst),** *Thoracic medicine*, Diploma
68:344 **London (Inst Dermatology),** *Dermatology*, Diploma
68:345 **London (Inst Neurology),** *Clinical neurology*, Diploma
68:346 **London (KQC),** *Medical ethics and law*, Diploma
68:347 **London (LSH and TM),** *Human and clinical genetics*, Diploma
68:348 **London (LSH and TM),** *Medical microbiology*, School Diploma

University of Aberdeen

MSc Medical Physics

available)

The Department also offers a nine-month course for a Diploma in Medical Physics ... qualifications are inadequate for the MSc degree

MSc Information Technology (Medical Physics)

An alternative course with the same general structure as above but ... science information processing ...

Further details available on application to: The Admissions Secretary ... Physics and Bio-Engineering, Foresterhill, Aberdeen AB9 2ZD Telephone ...

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LIVERPOOL S... TROPICAL M...

(Affiliated to the Univ...

The School, a registered Charity, was formed ... Incorporation in 1905. Its objectives are to ... aspects of tropical medicine and to conduct ...

Postgraduate students are accepted ... following taught courses leading to Liverpool ... School Certificates.

University of Aberdeen

ANATOMY

MSc/PhD

Supervision available, opportunities for study and research in all aspects of anatomy inc histology, histochem, electron microscopy, morphometry, stereology; neurology research topics and interests: developmental neurobiol; diabetic neuropathy; diabetic nephropathy; functional morphology of placenta; biol anthropology; skeletal biol of past and present populations, development abnormalities of axial skeleton; structure and regeneration in muscle and tendon; structural organisation in small bowel; biol of human isolates; facilities inc operating and technical facilities for all standard computer-assisted techniques inc optical and electron microscopy, quantitative microscopy and image analysis.

Contact: **Professor E J Clegg**
Department of Anatomy
University of Aberdeen, Marischal College
Aberdeen AB9 1AS

UNIVERSITY OF KEELE

Research Department of Communication and Neuroscience

Opportunities for interdisciplinary postgraduate research in the following areas of study.

Auditory physiology and anatomy: frequency selectivity, pitch, intensity, animal models of deafness; clinical applications, rehabilitation. **Visual psychophysics:** pattern recognition and discrimination; motion, acuity, mathematical modelling, colour vision, clinical applications. **Visual neurophysiology:** retina, cortex; pattern, texture, motion, relative motion; after-effects; correlation between physiology and anatomy. **Speech processing:** human perception, computer synthesis and recognition, lip-reading aids. **Neuroanatomy:** ultrastructure of the auditory system in normal and deaf animals, dye tracing of physiologically identified neurones **Visual evoked potentials:** information processing in human visual cortex. **Clinical auditory psychophysics and evoked responses:** diagnosis, prevention and amelioration of sensorineural hearing loss. **Auditory psychophysics:** pitch and space perception, frequency-sweep adaptation, frequency analysis, otoacoustic emissions, tinnitus

For further information, please contact Dr D H Foster, (Postgraduate Admissions), Department of Communication and Neuroscience, University of Keele, Keele, Staffordshire ST5 5BG

UNIVERSITY OF LEEDS

DEPARTMENT OF CHEMICAL PATHOLOGY

MPhil/PhD by Research

Supervision available in the following areas: haem biosynthesis, trace elements, autoimmunity of diabetes, pharmacokinetics, toxicology, sodium and water metabolism, nutrition, inherited metabolic variation, steroid biosynthesis, corticosteroid metabolism, information technology.

MSc Clinical Biochemistry

Designed to meet needs of graduate overseas students who wish to pursue a career in clinical biochemistry. One or two calendar years depending on initial qualifications. Formal teaching sessions are supplemented by laboratory training and a research project.

MSc Steroid Endocrinology

Designed for graduates who wish to undertake an in-depth study of steroid endocrinology. One or two calendar years depending on initial qualifications. Extensive practical research project and laboratory and tutorial teaching sessions.

Further details available from: **The Secretary, Department of Chemical Pathology, University of Leeds, Leeds LS2 9JT**

UNIVERSITY COLLEGE, LONDON

Department of Anatomy and Embryology

This is one of the largest Biological Research Departments in the United Kingdom and is an ideal location for a training in biological research in terms of the breadth of sophisticated techniques available and the international reputations of the staff Research covers a wide interdisciplinary spectrum with emphasis on neuroscience, development biology and cell biology, including mineralised tissue Facilities and expertise are available for tissue culture, ultrastructural studies (incl SEM, TEM, freeze fracture, line emission X-ray and image analysis), immunohistochemistry, biochemical fractionation, electrophysiological, pharmacological and behavioural studies

MSc in Neurological Sciences The course extends over one calendar year (commencing in October) and consists of lectures and a research project in an aspect of molecular, cellular, systems or behavioural neuroscience

MSc in Mineralised Tissue Biology The course extends for 1 year (or 2 years part-time) commencing in October, and consists of three taught courses and a research project The course is designed to cover hard tissue biology and its application in such fields as dentistry, medicine, zoology, veterinary medicine, anthropology and archaeology

MPhil/PhD A research project leading to a doctorate, supervised by one of the 24 members of staff

Non-Degree Courses are also available on practical laboratory experience

Further details from Administrative Officer,
Department of Anatomy and Embryology,
University College London, Gower Street,
London WC1E 6BT. Tel 01-387 7050 ext 303

69 Pharmacy, pharmacology and pharmaceutical sciences

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section

69.1 **Aberdeen,** *Clinical pharmacology*, PhD
69.2 **Aberdeen,** *Pharmacology*, MSc/PhD
69.3 **Aston,** *Pharmaceutical sciences*, MPhil/PhD, research in following areas, some specific projects named: *mechanisms of drug toxicity* implications of metabolism of xenobiotic N methyl moieties [illegible]

[illegible]

microbiol envelope of *Pseusomonas aeruginosa*, immunochem studies of streptococcal endocarditis, *drug mechanisms* nerve and muscle pathophysiol, cardiovascular research, psychotropic drugs *pharmacy practice* community pharmacy projects, clinical and hospital studies. Contact Dr JA Hickman
69.4 **Bath,** *Pharmaceutical and medicinal chemistry*, MPhil/MSc/PhD
69.5 **Bath,** *Pharmaceutics*, MPhil/PhD See page 302
69.6 **Bath,** *Pharmacology*, MPhil/PhD
69.7 **Belfast,** *Pharmacy*, MSc/PhD
69.8 **Birmingham,** *Pharmacology*, MSc/PhD
69.9 **Birmingham,** *Therapeutics and clinical pharmacology*, MSc/PhD
69.10 **Bradford,** *Pharmaceutical chemistry*, MPhil/PhD
69.11 **Bradford,** *Pharmacology*, MPhil/PhD
69.12 **Bradford,** *Pharmacy*, MPhil/PhD
69.13 **Brighton Poly,** *Pharmacy*, MPhil/PhD
69.14 [illegible]
69.15 [illegible]
69.16 [illegible]
69.17 [illegible]
69.18 [illegible]
69.19 **Glasgow,** *Pharmacology*, MSc/PhD
69.20 **Hatfield Poly,** *Biological and environmental sciences*, MPhil/PhD (CNAA)
69.21 **Heriot Watt,** *Pharmacy*, MSc/PhD
69.22 [illegible]
69.23 [illegible]
69.24 [illegible]
69.25 [illegible]
69.26 [illegible]
69.27 [illegible]
69.28 [illegible]
69.29 [illegible]
69.30 [illegible]
69.31 [illegible]
69.32 [illegible]
69.33 **London (UC),** *Pharmacology*, MPhil/PhD

69:34 London (Charing Cross and Westminster), *Medicine*, MPhil/PhD

69:35 London (Royal Free), *Pharmacology*, MPhil/PhD

69:36 Loughborough, *Chemistry*, MPhil/PhD; inc medicinal chem; see Physical sciences: chemistry Contact GE Beck

69:37 Manchester, *Pharmacology*, MSc/PhD

69:38 Manchester, *Pharmacy*, MSc/PhD; supervision available, research interests inc: *medicinal chem* synthesis and structure-activity relationships of heterocyclic cpds having potential oncolytic, anti fungal, anti-viral, analgesic anti-parkinsonism or cardiovascular activity, Fischer indolisations structure, activity relationships; *drug metabolism and toxicology:* possible role of reactive metabolites in initiation of toxic response; *pharmaceutical analysis:* correlation of molecular structure and luminescence characteristics; *natural products:* phytochem of medicinal plants and herbal medicines, plant cell cultures; *pharmaceutical microbiol:* mechanism of action of anti-microbials, bacterial drug resistance, control of sterilisation processes; *physical pharmacy:* physicochem properties of surfactants in soln; *biopharmaceutics;* physicochem factors influencing drug availability, controlled release of drugs in *in vivo* imaging, formulation of dermatologicals; *pharmacokinetics:* influence of route, dose, physiol and pathophysiol factors, structure on kinetics; extrapolation of *in vitro* to *in vivo*; development of math models; relationship to pharmacological and therapeutic response in animals and men; *radiation biol:* radiosensitisation of isolated cells by imidazole derivs. **Contact** Dr JT Fell

69:39 Nottingham, *Pharmacy*, MPhil/PhD

69:40 Oxford, *Clinical pharmacology*, MSc/DPhil

69:41 Oxford, *Pharmacology*, MSc/DPhil; research interests inc: chem, electrophysiol and morphological characterisation of neurons in brain and synaptic connections of such identified neurons (MRC Anatomical Neuropharmacological Unit); immunotoxicology; metabolism of cannabis and other centrally active drugs; (Wellcome Research Unit); electrophysiol and pharmacology of heart muscle; distribution and exchange of ions in smooth muscle and effect of drugs; electrophysiol of neuromodulation by proteins; neural control of blood vessels, neuronal connectivity in regions o brain of pharmalogical interest, neuronal proteins; storage, re-uptake and release o neurotransmitter from nerve terminals and dendritic processes in CNS; peptidase enzymes in CNS extraction of neurohypophysial hormones from tissues and body fluids and measurement of thei concentrations, action of drugs on neurohypophysis; medicinal chem synthesis of groups o compounds to produce compounds with novel pharmacological effects or to test theories o molecular mechanism of drug action. **Contact** Professor AD Smith, Dept of Pharmacology, Sout Parks Road, Oxford OX1 3QT

69:42 Portsmouth Poly, *Pharmacy*, MPhil/PhD (CNAA)

69:43 Sheffield, *Pharmacology and therapeutics*, MMedSci/PhD; supervision available, current researc inc: metabolic effects of drug therapy; intermediary metabolism in disease; assessment o metabolic function of organs; drug control of immune response; effect of cancer on drug metabo ism; regulation of gonadal function by gonadotrophins and cyclic nucleotides; clinical pharmacol ogy and pharmacokinetics of anti-diabetic drugs, anti-hypertensive drugs, anti-arrhythmic drug and local anaesthetics; metabolism of drugs in isolated perfused organs, modes of action an kinetics of anti-hypertensive drugs; utilisation of nutrients during parenteral nutrition; numeric assessment of nutritional status; interaction of drugs with metabolism and release o physiologically active amino acids in brain; identification of excitatory amino acid neurotransmit ter receptors in CNS; identification and epidemiology of adverse drug reactions; prescriptio monitoring and therapeutic audit; diuretics and potassium metabolism; clinical pharmacology an pharmacokinetics of anti-leukaemic drugs; genetic control of drug metabolism in man; dru metabolism by human liver microsomes; genetic aspects of drug metabolism. **Contact** Professor H Woods

69:44 Southampton, *Pharmacology*, MPhil/PhD

69:45 Strathclyde, *Pharmacy*, MSc/PhD

69:46 Strathclyde, *Physiology and pharmacology*, MSc/PhD

69:47 Sunderland Poly, *Pharmaceutical sciences*, MPhil/PhD (CNAA)

69:48 Wales (C of Medicine), *Pharmacology and therapeutics*, MSc/PhD

69:49 Wales (UWIST), *Pharmacy*, MSc/MPharm/PhD *See page 302*

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

69 50 [illegible]
69.51 [illegible]
69 52 [illegible]
69 53 [illegible]
69 54 [illegible]
69.55 **Glasgow,** *Medical sciences,* MSc(MedSci)
69 56 [illegible]
69 57 [illegible]
69.58 [illegible]
69 59 [illegible]
69 60 [illegible]
69 61 [illegible]
69 62 [illegible]
69 63 [illegible]
69 64 **Manchester,** *Pharmaceutical analysis,* MSc/Diploma, 1 2c yrs f t 2 yrs p-t min (MSc) 1 yr f t (Diploma), *course inc* analytical measurements, spectrophotometry electrometric measure [illegible]
69 65 [illegible]
69.66 [illegible]
69.67 **NE London Poly,** *Pharmacology,* MSc (CNAA)
69 68 **Southampton,** *Biochemical pharmacology,* MSc
69.69 **Strathclyde,** *Clinical pharmacy,* MSc
69.70 **Strathclyde,** *Pharmaceutical analysis,* MSc/Diploma
69.71 [illegible] toxic interactions betwn drugs extrapolation from animals to man design and conduct of volunteer and clinical trials, lab work *two main options* 1) broadly based course giving gen training in pharmacology, or 2) gen pharmacology core with specialisation in either plant medicines or snake toxins Contact Dr RM Wadsworth
69 72 **Sunderland Poly,** *Pharmaceutical sciences,* MSc (CNAA)
69.73 **Sussex,** *Medical chemistry,* MSc
69 74 **Wales (UWIST),** *Pharmaceutical sciences,* MSc

Certificates and diplomas

69.75 **NE London Poly,** *Pharmacology,* Diploma
69 76 **Sunderland Poly,** *Quality assurance,* Diploma

UNIVERSITY OF BATH

SCHOOL OF PHARMACY AND PHARMACOLOGY

Pharmaceutical sciences, MPhil/PhD, research interests include

Pharmaceutics: improved control of drug targeting and release from formulations and delivery devices, effects of formulatory adjuvants on stability of drug formulations, interaction between polymers and medicaments, effects of surfactants on stability and bioavailability of labile drugs, aspects of powder compaction and tablet film coating, utilisation of charge interactions to improve powder mixing, effects of particle shape and crystal modifications in pharmaceutical systems, microbiological preservation and safety of ophthalmic formulations including contact lens solutions, nature of repair of UV-induced DNA damage in cells using bacterial and human fibroblast cells in culture, use of bacteria to investigate mechanisms of co-carcinogenicity, activation and germination studies in bacterial spores, biotechnological transformation of drug molecules

Pharmacology: studies on circadian rhythms in neuro- and psycho-pharmacology, mode of action of anti-Parkinson drugs, anti-inflammatory and anti-arthritic drugs (including glucocorticoids), auto-immune phenomena in disease and assessment of immuno-suppressant sensitivity in diabetes mellitus, foetal pharmacology, studies in prostaglandin pharmacology, cardiovascular pharmacology, clinical pharmacology, aspects of anti-inflammatory drug metabolism and biodistribution.

Pharmaceutical and medicinal chemistry: sterically constrained transmitter agents, cholinergic agonists and antagonists, bio-active imidazolines, analgesic 6,7-benzomorphans and piperidines, marine natural products, anti-cancer uracils and pteridines, anti-histamines (H_1), ^{13}C and ^{1}H nmr studies, pharmaceutical analysis, quantitative nmr and high performance liquid chromatography, determination of drugs in body fls, metabolism and impurity/degradation profiles, mechanisms of microbiological transformation of drug substances, authentication of plant materials, development of isolation and analytical procedures, determination of chemical structure of plant products of value in pharmaceutical sciences

For further information write to Professor J E Rees, School of Pharmacy and Pharmacology, University of Bath, Claverton Down, Bath BA2 7AY

University of Wales Institute of Science and Technology

MSc/MPharm/PhD: Pharmacy

Supervision available Current research interests include *Pharmaceutical chemistry and pharmacognosy.* enzyme inhibitors in drug design, analytical studies on synthetic drugs synthesis and biotransformation in plant tissue culture, inflammatory and epair processes in skin, wound management pro ucts design, percutaneous absorption and memrane permeation kinetics, *pharmacology* mechansm of action of antidepressants, tranquilisers, analgesics (including dependence) anti-cancer agents and of drugs on myocardial and coronary artery function; the pulmonary effect of vegetable dusts, drug metabolism and pharmacokinetcs, *pharmaceutics* bacterial resistance, tabletting and encapsulation processes, colloidal drug delivery systems, controlled drug delivery and drug targeting, parenteral systems, mucoadhesive polymers and hydrogels, pulmonary formulations, *clinical and social pharmacy* development and evaluation of patient-oriented pharmaceutical services and patient education in hospital and community

Further information from The Welsh School of Pharmacy, University of Wales Institute of Science and Technology, King Edward VII Avenue, Cardiff CF1 3XF

Addresses of institutions

are on pages 479–508

70 Veterinary studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in wh[...] propose to carry out research Information about the periods of study required for research d[...] given in the Entrance requirements and periods of study paragraphs in the introductory Pos[...] ate studies section

70 1 **Bristol,** *Veterinary medicine* MSc/PhD
70 2 **Bristol,** *Veterinary surgery*, MSc/PhD
70 3 **Cambridge,** *Clinical veterinary medicine* MSc/PhD
70 4 **Edinburgh,** *Veterinary medicine* MSc/PhD
70 5 **Edinburgh,** *Veterinary physiology*, MPhil/PhD
70 6 **Glasgow,** *Veterinary studies* MPhil/PhD
70 7 **Liverpool,** *Veterinary science* PhD
70 8 **London (Royal Veterinary),** *Veterinary science* MVSc/MAnimSc/PhD
70 8 **London (Royal Veterinary),** *Veterinary science* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research proj[...] (normally lasting three months) with submission of a written report dissertation or thesis is norma[...] a part of these courses

70 9 **Edinburgh,** *Animal health*, MSc/Diploma
70 10 **Edinburgh,** *Neurophysiology* MSc/Diploma
70 11 **Edinburgh,** *Public health (animal studies)* MSc/Diploma
70 12 **Edinburgh,** *Tropical animal production and health* MSc/Diploma
70 13 **Edinburgh,** *Tropical veterinary medicine* MSc/Diploma *See page 304*
70 14 **Glasgow,** *Tropical veterinary science* MSc/Diploma *See page 304*
70 15 **Glasgow,** *Veterinary medicine*, MSc(VetSci)/MVM/Diploma *See page 304*
70 16 **Liverpool,** *Applied parasitology and medical entomology* MSc/MVSc
70 17 **London (Royal Veterinary),** *Animal health* MSc
70 18 **London (Royal Veterinary),** *Laboratory animal science* MSc
70 19 **London (Royal Veterinary),** *Veterinary pathology*, MSc
70 20 **Stirling,** *Aquatic pathobiology*, MSc/Diploma
70 21 **Stirling,** *Aquatic veterinary studies*, MSc/Diploma
70 22 **Surrey,** *Veterinary microbiology*, MSc/Diploma
70 23 **Wales (Bangor),** *Animal parasitology*, MSc/Diploma

Addresses of institutions

are on pages 479–508

70 Veterinary studies

Higher degrees by research

ate studies section

70 1 **Bristol,** *Veterinary medicine* MSc/PhD
70 2 **Bristol,** *Veterinary surgery* MSc/PhD
70 3 **Cambridge,** *Clinical veterinary medicine* MSc/PhD
70 4 **Edinburgh,** *Veterinary physiology* MPhil/PhD
70 5 **Edinburgh,** *Veterinary studies* MPhil/PhD
70 6 **Glasgow,** *Veterinary medicine* PhD
70 7 **Liverpool,** *Veterinary science* MVSc/MAnimSc/PhD
70 8 **London (Royal Veterinary),** *Veterinary science* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the urse A research project (normally lasting three months) with submission of a written report dissert tion or thesis is normally a part of these courses

70 9 **Edinburgh,** *Animal health* MSc/Diploma
70 10
70 11
70 12 *See page 304*
70 13 **Edinburgh,** *Tropical veterinary medicine* MSc/Diploma *See page 304*
70 14
70 15
70 16
70 17
70 18
70 19
70 20
70 21
70 22 **Surrey,** *Veterinary microbiology* MSc/Diploma
70 23 **Wales (Bangor)** *Animal parasitology* MSc/Diploma

Research facilities and courses: III Physical sciences

For institution addresses and further information sources, see the 'Institutions' section, starting on page 479.

71 Mathematics (including OR and statistics)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

71:1 **Aberdeen,** *Mathematics,* MSc/PhD
71:2 **Aberdeen,** *Statistics,* MSc/PhD
71:3 **Aston,** *Mathematics and physics,* MPhil/PhD
71:4 **Bath,** *Mathematics,* MSc/PhD
71:5 **Belfast,** *Applied mathematics and theoretical physics,* MSc/PhD
71:6 **Belfast,** *Engineering mathematics,* MSc/PhD
71:7 **Belfast,** *Mathematics,* MSc/PhD
71:8 **Belfast,** *Statistics and operational research,* MSc/PhD
71:9 **Birmingham,** *Mathematics,* MSc/PhD
71:10 **Birmingham,** *Statistics,* MSc/PhD
71:11 **Bradford,** *Mathematical sciences,* MPhil/PhD
71:12 **Brighton Poly,** *Mathematics,* MPhil/PhD
71:13 **Bristol,** *Engineering mathematics,* MSc/PhD
71:14 **Bristol,** *Mathematics,* MSc/PhD; supervision available, research interests: *applied maths:* fl mechanics and its environmental and geophysical applications; numerical analysis; *pure maths:* math logic and theory of computation, geometric measure theory, set theory, ring theory, differential topology, dynamical systems; *probability and stats:* applied probability and stochastic processes. Contact Dr EJ Walker
71:15 **Bristol Poly,** *Computer studies and mathematics,* MPhil/PhD (CNAA)
71:16 **Brunel,** *Mathematical studies,* MPhil/PhD
71:17 **Cambridge,** *Applied mathematics and theoretical physics,* MSc/PhD; supervision available; research gps working in: fl dynamics, dynamical oceanography, astrophysics, gen relativity and cosmology, elem particle physics, biol mechanics, colloid science, seismology, stat mechanics, atomic collision theory, numerical analysis, adv math methods; facilities inc: library with range of periodicals and monographs on physical science, computing facilities, on-line access to Univ computer, lab with workshop and photographic facilities for exptl work esp in fl dynamics. Contact Professor HK Moffatt
71:18 **Cambridge,** *Pure mathematics and mathematical statistics,* MSc/PhD
1:19 **City,** *Mathematics,* MPhil/PhD
1:20 **City of London Poly,** *Mathematics and statistics,* MPhil/PhD (CNAA)
:21 **City of London Poly,** *Statistics and operational research,* MPhil/PhD (CNAA)
71:22 **Coventry (Lanchester) Poly,** *Mathematics,* MPhil/PhD (CNAA)
71:23 **Coventry (Lanchester) Poly,** *Statistics and operational research,* MPhil/PhD (CNAA)
71:24 **Cranfield,** *Mathematics,* MSc/PhD
71:25 **Derbyshire CHE (Derby),** *Mathematics,* MPhil/PhD
71:26 **Dundee,** *Mathematical sciences,* MSc/PhD
71:27 **Durham,** *Mathematics,* MSc/PhD
71:28 **East Anglia,** *Mathematics,* MPhil/PhD *See page 315*
71:29 **Edinburgh,** *Mathematics,* MPhil/PhD
71:30 **Edinburgh,** *Statistics,* MPhil/PhD; supervision available, research interests inc: design and analysis of field expts, survey methodology, pattern recognition (involving ecol, medical and earth-satellite data), dynamics of spatial populations, spatial branching processes, stochastic models in agriculture, decision theory in animal breeding, stats in forensic science, analyses of qualitative

data and of directional data, Monte Carlo methods survival analysis demography Contact Dr CM Theobald

71 31 **Essex,** *Mathematics,* MSc/MPhil/PhD

71 32 **Exeter,** *Mathematical sciences,* MPhil/PhD *See page 316*

71 33 **Glasgow,** *Mathematics,* MSc/PhD supervision available *research interests in following fields*

71 34 **Glasgow,** *Statistics* MSc/PhD supervision available courses on stat methods and theory survival data, design of expts stochastic processes OR econometrics time series analysis of data stat

71 35 **Heriot Watt,** *Mathematics,* MSc/PhD (MSc in nonlinear mathematics joint w ... of Edinburgh), MSc/PhD by research in algebra analysis (pure and applied) ord and partial differential eqns calculus of variations continuum mechanics (esp elasticity and inc qualitative theory of assoc differential eqns) mathematical physics (esp stat mechanics) stochastic processes numerical analysis (*nonlinear wave problems and partial differential eqns*) *Contact Dr J Carr*

71 36 **Huddersfield Poly,** *Computer studies and mathematics,* MPhil/PhD (CNAA)

71 37 **Hull,** *Mathematics,* MSc/PhD supervision available recent interests *pure maths* stochastic analysis inc stochastic control theory non standard analysis and applications in probability theory functional analysis esp operator algebras gen topology *applied maths* relativity quantum mechanics scattering theory, fl mechanics heat transfer *stats* stochastic processes probabilistic modelling and probability on gps foundations of stat inference with sp ref to insight afforded by Bayesian concepts, a 1 yr diploma course giving entry quals for these research deg courses is available for less well-qualified candidates Contact Dr PE Kopp

71 38 **Keele,** *Mathematics,* MSc/PhD

71 39 **Kent,** *Mathematics,* MSc/MPhil/PhD

71 40 **Kingston Poly,** *Mathematics,* MPhil/PhD (CNAA)

71 41 **Lancaster,** *Mathematics,* MPhil/PhD

71 42 **Lancaster,** *Operational research,* MPhil/PhD, supervision available most research has either

71 43 [illegible]

71 44 **Leeds** *Pure mathematics* MPhil/PhD supervision available current research interests [illegible]

71 45 **Leeds,** *Statistics,* MPhil/PhD supervision available current research ... multivariate analysis ... Dr JT Kent

71 46 [illegible]

71:47 **Leicester,** *Mathematics,* MPhil/PhD
71:48 **Leicester Poly,** *Mathematics, computing and statistics,* MPhil/PhD (CNAA)
71:49 **Liverpool,** *Applied mathematics and theoretical physics,* MSc/PhD; supervision available; staff research interests: elasticity; non-Newtonian fls; water waves; fl mechanics; colorimetry; dynamical astronomy; dynamical systems; relativity; math models in biol, botany and geol; algebraic computing; representations of algebras and gps with applications to physics and differential eqns; supergps and assoc structures; super-symmetry; lattice gauge theories; nuclear physics; theory of metals and alloys; magnetic effects in solids; generalised Ising models and critical phenomena. **Contact** Mrs J Seed
71:50 **Liverpool,** *Pure mathematics,* MSc/PhD; supervision available, research interests in following fields: topology (esp 3-d), gp theory, representation theory of algebras, Kac-Moody Lie algebras and gps, algebraic geom, differential geom, dynamical systems, ergodic theory, potential theory, functional analysis, C*-algebras and cyclic cohomology, also some emphasis on singularity theory with sp ref to: topology of unfoldings, topological stability, finite determinacy, gp actions and applications to differential geom. **Contact** Mrs AJ Newstead
71:51 **Liverpool,** *Statistics and computational mathematics,* MSc/PhD; supervision available, current research interests: *numerical analysis:* soln of partial differential eqns, integral eqns, ord differential eqns, variational methods, sparse matrix techniques and nonlinear optimisation; *OR:* graph theory, combinatorial programming, software eng, forecasting, combinatorial optimisation, simulation; *stats:* multivariate analysis and pattern recognition, non-linear regression; stat inference, industrial applications, stochastic process, forecasting, time series analysis, design of expts, biostatistics, reliability theory, stat genetics, survey methods and electoral prediction. **Contact** Professor L Delves
71:52 **Liverpool Poly,** *Mathematics,* MPhil/PhD (CNAA)
71:53 **London (Birkbeck),** *Mathematics,* MPhil/PhD; supervision available in following: number theory, analysis, ergodic theory, ring theory, geometry and topology. **Contact** Dr RG Wilson
71:54 **London (Birkbeck),** *Statistics,* MPhil/PhD
71:55 **London (Goldsmiths'),** *Mathematics,* MPhil/PhD
71:56 **London (Imperial),** *Mathematics,* MPhil/PhD; supervision available for research in following topics: algebra (gp theory, representation theory, algebraic K-theory), combinatorics, number theory (algebraic, analytic, combinatorial and probabilistic), analysis (real and complex), functional analysis, global analysis, dynamical systems, theoretical fl mechanics, solid mechanics, quantum theory of solid state, relativity, numerical analysis, approximation theory, differential eqns, mathematical stats, applied stats, probability, stochastic processes and hist of mathematics: ample opportunity available for computational work with Imperial College CYBER and University of London CRAY computers. **Contact** Head of Department
71:57 **London (KQC),** *Mathematics,* MPhil/PhD *See page 316*
71:58 **London (LSE),** *Mathematics,* MPhil/PhD
71:59 **London (LSE),** *Operational research,* MPhil/PhD
71:60 **London (LSE),** *Statistics,* MPhil/PhD
71:61 **London (Queen Mary),** *Computer science and statistics,* MPhil/PhD
71:62 **London (Queen Mary),** *Mathematics,* MPhil/PhD
1:63 **London (RHBC),** *Mathematics,* MPhil/PhD
1:64 **London (RHBC),** *Statistics and computer science,* MPhil/PhD
1:65 **London (UC),** *Mathematics,* MPhil/PhD; supervision available in wide range of math subjs inc: algebra (ring theory and homological algebra), complex variable theory, convexity, functional analysis, gen and algebraic topology, geophysical fl mechanics, aerodynamics, meteorology, 2-phase flows, contact-line problems, boundary-layer theory, physiol flows, Stokes flows and hydrodynamic instability theory, theory of cracks, quantum electrodynamics, numerical analysis; Dept publishes journal *Mathematika*. **Contact** Professor EA Power
71:66 **London (UC),** *Statistical science,* MPhil/PhD
71:67 **Loughborough,** *Engineering mathematics,* MSc/MTech/PhD
71:68 **Loughborough,** *Mathematics,* MPhil/PhD
71:69 **Manchester,** *Decision theory,* MA(Econ)/PhD
71:70 **Manchester,** *Mathematics,* MSc/PhD
71:71 **Manchester (UMIST),** *Mathematics,* MSc/PhD
71:72 **Manchester Poly,** *Physics, mathematics and computing,* MPhil/PhD (CNAA)
71:73 **Napier C (Edinburgh),** *Science,* MPhil/PhD (CNAA)

71 74 **Newcastle,** *Engineering mathematics*, MSc/PhD
71 75 **Newcastle,** *Mathematics*, MSc/PhD
71 76 **Newcastle Poly,** *Mathematics and statistics* MPhil/PhD (CNAA)
71 77 [illegible]
71 78 [illegible]
71 79 [illegible]
71 80 **Nottingham,** *Theoretical mechanics* MPhil/PhD
71 81 **Open,** *Mathematics* BPhil/MPhil/PhD
71 82 [illegible]
71 83 **Oxford Poly,** *Mathematics, statistics and computing*, MPhil/PhD
71 84 **Paisley CT,** *Mathematical sciences* MPhil/PhD (CNAA)
71 85 [illegible]
71 86 [illegible]
71 87 **Poly of North London,** *Mathematics statistics and computing* MPhil/PhD (CNAA)
71 88 **Poly of Wales,** *Mathematics and computer science* MPhil/PhD (CNAA)
71 89 [illegible]
71 90 [illegible]
71 91 [illegible]
71 92 **St Andrews,** *Applied mathematics* MSc/PhD
71 93 **St Andrews,** *Pure mathematics*, MSc/PhD
71 94 **St Andrews,** *Statistics*, MSc/PhD
71 95 **Salford,** *Mathematics and computer science*, MSc/PhD
71 96 **Sheffield,** *Applied and computational mathematics*, MSc/PhD
71 97 **Sheffield,** *Probability and statistics* MSc/PhD
71 98 **Sheffield,** *Pure mathematics* MSc/PhD
71 99 [illegible]
71 100 [illegible]
71 101 [illegible]
71 102 **Southampton,** *Pure mathematics* MPhil/PhD
71 103 **Southampton,** *Statistics*, MPhil PhD
71 104 **South Bank Poly,** *Mathematical sciences and computing*, MPhil/PhD (CNAA)
71 105 **Stirling,** *Mathematics*, MSc/PhD
71 106 [illegible]

processes time series and prediction and control of animal diseases stat compu[illegible] systems and ogy in medicine forensic science earth sciences psychol and teletraffic problems) [illegible] modes of dynamic control theory (analysis and computational methods for linear and nonlinear processes) Contact Dr IA Murdoch

71 107 **Strathclyde,** *Operational research* MSc/PhD
71 108 **Sunderland Poly,** *Mathematics and computer studies* MPhi[illegible]

71:109 **Surrey,** *Mathematics,* MPhil/PhD
71:110 **Sussex,** *Mathematics,* MPhil/DPhil *See page 315*
71:111 **Sussex,** *Operational research,* MPhil/DPhil
71:112 **Teesside Poly,** *Mathematics and statistics,* MPhil/PhD (CNAA)
71:113 **Thames Poly,** *Mathematics, statistics and computing,* MPhil/PhD (CNAA)
71:114 **Trent Poly,** *Mathematics, statistics and operational research,* MPhil/PhD (CNAA)
71:115 **Ulster,** *Mathematics,* MPhil/DPhil
71:116 **Wales (Aberystwyth),** *Applied mathematics,* MSc/PhD *See page 315*
71:117 **Wales (Aberystwyth),** *Pure mathematics,* MSc/PhD *See page 315*
71:118 **Wales (Aberystwyth),** *Statistics,* MSc/PhD *See page 315*
71:119 **Wales (Bangor),** *Applied mathematics,* MSc/PhD
71:120 **Wales (Bangor),** *Pure mathematics,* MSc/PhD
71:121 **Wales (Cardiff),** *Applied mathematics and astronomy,* MSc/PhD
71:122 **Wales (Cardiff),** *Computing mathematics,* MSc/PhD
71:123 **Wales (Cardiff),** *Mathematical statistics and operational research,* MSc/PhD
71:124 **Wales (Cardiff),** *Pure mathematics,* MSc/PhD
71:125 **Wales (Swansea),** *Mathematics,* MA/MSc/PhD; supervision available; research interests: *applied maths:* stat mechanics and thermodynamics, graph theory and combinatorics, hydrodynamics (all branches inc flow of non-Newtonian liqs), elasticity (inc problems of elastico-viscous flow) functional integrals, stochastic processes and quantum mechanics; *pure maths:* functional analysis harmonic analysis, complex analysis, topology, combinatorial maths, algebraic geom, theory of probability, math logic; MA available in pure maths only. **Contact** Admissions Tutor
71:126 **Wales (Swansea),** *Management science and statistics,* MSc/PhD
71:127 **Wales (UWIST),** *Mathematics,* MSc/PhD
71:128 **Warwick,** *Applied mathematics,* MSc/PhD
71:129 **Warwick,** *Mathematics,* MSc/PhD; research supervision available in gps, algebraic gps, gps of Lie type, representations, rings, Lie algebras, algebraic geom, differential geom, hyperbolic geom Kleinian gps, algebraic topology, differentiable manifolds, foliations, symplectic geom, operator algebras, global analysis, ergodic theory, coding, harmonic analysis, stochastic differential eqns singularities, dynamical systems, catastrophe theory, pure and applied dynamical systems, computation, hist of maths; MSc taken as yr 1 qual exam. **Contact** Professor RW Carter
71:130 **Warwick,** *Statistics,* MPhil/PhD
71:131 **York,** *Mathematics,* MPhil/DPhil; supervision available, main areas for grad work: algebra analysis, differential eqns, gen relativity, quantum mechanics, theory of numbers; individual staff interests inc: differential analysis, math physics; relativity theory; complex analysis; e-m theory and differential eqns; abstract algebra and combinatorics; optimisation; numerical analysis; gen relativity; quantum theory of atomic and molecular structure; number theory and topology; semigps; analytical number theory and analysis; number theory and combinatorics; probability theory; measure theory, probability and traffic flow; quantum theory. **Contact** Professor AM Arthurs

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

71:132 **Aberdeen,** *Mathematics,* MSc
71:133 **Bath,** *Numerical analysis,* MSc
71:134 **Bath,** *Statistics,* MSc
71:135 **Birmingham,** *Operational research,* MSc, 1c yr f-t: provides adv education and training for grads with experience in industry, commerce or govt who intend to take up career in OR; *course content:* OR techniques (decision theory, combinatorics, queues, math programming, theory of games, stock control models, operational gaming, renewal and replacement theory, bidding and gaming, information theory, network theory, plus case studies and practical projects), math stats (stat inference, parametric and non-parametric tests of significance, estimation, design of expts, multiple regression, theory of probability), computers (digital computers and several programming langs inc a simulation lang and computer-based solns to OR problems), production management

71 136 Bristol, *Mathematical logic and the theory of computation* MSc 1c yr f t (some math logic knowledge advantageous) alternate yrs next entry 1987 *course content* recursive functions set theory model theory category theory proof theory complexity subrecursive functions formal langs correctness of programs lang PROLOG logic programming higher order logic independence in arithmetic Topoi Contact Dr EJ Walker
71 137 Brunel *Numerical analysis* MSc/Diploma
71 138 Brunel, *Statistics* MSc/Diploma
71 139 Cambridge, *Control engineering and operational research* MPhil
71 140 [illegible]

71 141 [illegible] (CNAA)
71 142 Cranfield, *Applicable mathematics* MSc
71 143 Cranfield, *Operational research* MSc
71 144 Dundee *Functional analysis and differential equations* MSc
71 145 Dundee, *Numerical analysis and programming* MSc
71 146 Durham *Mathematics* MSc
71 147 East Anglia *Mathematical logic* BPhil/MA
71 148 East Anglia *Theoretical mechanics* MSc *See page 315*
71 149 Edinburgh *Statistics* MSc/Diploma
71 150 Essex *Applied mathematics* MSc/Diploma
71 151 Essex, *Numerical analysis* MSc/Diploma
71 152 Essex *Statistics and operational research* MSc/Diploma
71 153 Exeter, *Applied mathematics* MSc
71 154 Exeter, *Mathematical statistics* MSc/Certificate
71 155 Exeter, *Operational research* MSc/Certificate
71 156 Exeter, *Pure mathematics* MSc
71 157 Glasgow *Statistics* MSc/Diploma
71 158 Heriot Watt, *Mathematics applied to physical sciences* MSc
71 159 [illegible]

71 160 Keele *Education* MSc
71 161 Kent *Statistics* MSc/Diploma
71 162 Lancaster, *Mathematics* MSc/Diploma
71 163 Lancaster *Operational research* MSc/Diploma
71 164 Leeds *Mathematical education and mathematics* MSc
71 165 Leeds *Pure mathematics* MSc 1c yr f t *coursework* choice from 2 of following main areas *algebra* ring and module theory homological algebra gp theory commutative algebra and algebraic geom topics in ring theory *analysis* intro to Banach spaces and algebras measure

71 166 Leeds *Statistics* MSc 1c yr f t (except nally 2c yrs) topics from exptl design and analysis stochastic processes stat inference sample surveys time series analysis multivariate analysis ind strial stats stat ecol gy eco stats medical stats application of computers to stat calculation plus dissertation Contact Dr HW Peers
71 167 Liverpool *Advanced numerical analysis* MSc

71:168 **Liverpool,** *Numerical methods and electronic computation,* MSc
71:169 **Liverpool,** *Operational mathematics,* MSc
71:170 **Liverpool,** *Pure mathematics,* MSc
71:171 **London (Birkbeck),** *Mathematical techniques of statistics and OR,* MSc
71:172 **London (Birkbeck),** *Statistics,* MSc
71:173 **London (Imperial),** *Pure mathematics,* MSc/DIC; students accepted for University of London Intercollegiate 1 yr MSc course in mathematics:student req to pass written exam in number of lecture courses and write small dissertation during summer mths; choice of courses from wide variety offered by Colleges of University which participate in MSc; topics for dissertation should be of mutual interest to student and supervisor: research interests of members of Pure Section are algebra (gp theory, representation theory, algebraic K-theory), combinatorics, number theory (algebraic, analytic, combinatorial and probabilistic), analysis (real and complex), functional analysis and global analysis. **Contact** Professor KF Roth
71:174 **London (Imperial),** *Statistics,* MSc/DIC, 1c yr f-t; strong math background req; suitable preparation for stat work in many fields and for operational work placing emphasis on stat and math techniques; *lecture courses:* theory of probability, stat methods, theory of stats, time series, stochastic processes, multivariate analysis, design of expts, freq data, sampling techniques, optimisation, computational stats, current research in stats; coursework assessment, dissertation on applied or theoretical project (SERC). **Contact** Head of Department
71:175 **London (Inst Ed),** *Mathematical, statistical and computing education,* MSc
71:176 **London (KQC),** *Mathematics education,* MA/MEd
71:177 **London (KQC),** *Pure and applied mathematics,* MSc *See page 316*
71:178 **London (KQC),** *Science or mathematics education,* MA
71:179 **London (LSE),** *Mathematics,* MSc
71:180 **London (LSE),** *Operational research,* MSc
71:181 **London (LSE),** *Sociology and statistics,* MSc
71:182 **London (LSE),** *Statistics,* MSc
71:183 **London (Queen Mary),** *Mathematics,* MSc
71:184 **London (RHBC),** *Mathematics,* MSc
71:185 **London (UC),** *Statistics,* MSc
71:186 **Loughborough,** *Mathematical education,* MSc
71:187 **Loughborough,** *Mathematics of modern control systems,* MSc *See page 316*
71:188 **Loughborough,** *Optimisation and computing,* MSc *See page 316*
71:189 **Loughborough,** *Statistics and operational research,* MSc
71:190 **Manchester,** *Applied mathematics and mechanics of fluids,* MSc
71:191 **Manchester,** *Mathematical logic and the theory of computation,* MSc/Diploma
71:192 **Manchester,** *Numerical analysis and computing,* MSc/Diploma
71:193 **Manchester,** *Pure mathematics,* MSc/Diploma
71:194 **Manchester,** *Statistics,* MSc/Diploma
71:195 **Manchester (UMIST),** *Pure mathematics,* MSc/Diploma
71:196 **Manchester (UMIST),** *Statistics,* MSc/DipTechSci
:197 **Newcastle,** *Engineering mathematics,* MSc
198 **Newcastle,** *Mathematical techniques and their application,* MSc
199 **Newcastle,** *Statistics,* MSc
:200 **Nottingham,** *Mathematics,* MSc/Diploma
1:201 **Open,** *Mathematics,* MSc
71:202 **Oxford,** *Applied statistics,* MSc/Diploma
71:203 **Oxford,** *Mathematical modelling and numerical analysis,* MSc, 1 yr f-t; coursework; integrated course in math modelling and numerical soln of practical problems in science and eng, esp involving differential eqns; lectures and practical classes; exam and dissertation. **Contact** Professor KW Morton, Dr AB Tayler
71:204 **Reading,** *Applied mathematics,* MSc
71:205 **Reading,** *Biometry,* MSc
71:206 **Reading,** *Mathematical education,* MSc
71:207 **Reading,** *Numerical solution of differential equations,* MSc/Diploma
71:208 **St Andrews,** *Statistics,* MSc
71:209 **Salford,** *Modern applicable mathematics,* MSc

71 210 **Salford** *Statistics* MSc
71 211 **Sheffield,** *Probability and statistics* MSc
71 212 **Sheffield,** *Pure mathematics* MSc
71 213 **Sheffield City Poly,** *Applied statistics* MSc/Diploma (CNAA)
71 214 **Southampton** *Applied mathematics and theoretical physics* MSc
71 215 **Southampton,** *Applied statistics* MSc
71 216 **Southampton** *Mathematics education* MSc
71 217 **Southampton,** *Operational research* MSc
71 218 **South Bank Poly,** *Mathematical education* MSc (CNAA)
71 219 **Strathclyde** *Operational research* MSc/Diploma 1c yr f t 3c yrs p-t (hons deg inc some maths at univ standard for MSc req) *curriculum* OR techniques (linear programming integer and nonlinear programming dynamic programming forecasting project network analysis inventory control queueing theory maintenance and reliability theory simulation optimisation techniques decision theory) heuristics communications OR methodology stats computing ancillary subjs (cost accountancy economics industrial relations organisation and management) problem discussion sessions case studies work visits dissertation Contact CDJ Waters
71 220 **Sunderland Poly,** *Mathematical modelling and computer simulation* MSc (CNAA)
71 221 **Sussex** *Analysis and partial differential equations* MSc
71 222 **Sussex,** *Mathematics* MSc *See page 315*
71 223 [illegible]

Contact Prospectus and application form from Postgraduate Course Secretary Operational [illegible]

71 224 [illegible]
71 225 [illegible]
71 226 [illegible]
71 227 [illegible]
71 228 [illegible]
71 229 [illegible] ploma
71 230 [illegible]
71 231 [illegible] *onal research* MSc
71 232 **Warwick,** *Management scie[illegible]e and opera[illegible]al research* MSc
71 233 [illegible] manifolds algebra [illegible]

71 234 **Warwick** *Statistics* MSc/Diploma
71 235 **York,** *Mathematics and mathematical education* MSc

Certificates and diplomas

71 236 **Aberdeen,** *Mathematical sciences* Diploma
71 237 **Cambridge,** *Mathematical statistics* Diploma *See page 315*
71 238 **Cambridge,** *Mathematics* Certificate
71 239 [illegible]
71 240 [illegible]
71 241 [illegible]
71 242 [illegible]
71 243 [illegible]
71 244 **Dundee,** *Mathematics* Diploma
71 245 **Dundee,** *Statistics and computer science* Diploma
71 246 **East Anglia** *Pure mathematics* Diploma
71 247 **East Anglia** *Theoretical mechanics* Diploma

71:248 **Essex,** *Mathematics*, Certificate
71:249 **Essex IHE,** *Management of mathematics*, Diploma (Math Assoc)
71:250 **Essex IHE,** *Mathematical education*, Diploma (Math Assoc)
71:251 **Essex IHE,** *Teaching of mathematics to low-attaining pupils*, Diploma (Math Assoc)
71:252 **Glasgow,** *Mathematics*, Diploma
71:253 **Heriot-Watt,** *Mathematics*, Certificate
71:254 **Hertfordshire CHE (Watford),** *Mathematical education*, Diploma (Math Assoc)
71:255 **Hertfordshire CHE (Watford),** *Teaching of mathematics to low attainers*, Diploma (Math Assoc)
71:256 **Hull,** *Operational research*, Diploma
71:257 **La Sainte Union CHE (Southampton),** *Mathematical education*, Diploma (Math Assoc)
71:258 **Leeds,** *Teaching of mathematics*, Diploma
71:259 **Liverpool,** *Mathematical studies*, Diploma
71:260 **Liverpool IHE,** *Mathematical education*, Diploma
71:261 **London (Goldsmiths'),** *Teaching of pre-school and primary mathematics*, Diploma
71:262 **London (KQC),** *Mathematics*, Diploma
71:263 **London (KQC),** *Science or mathematics education for overseas students*, Diploma
71:264 **London (LSE),** *Operational research*, Diploma
71:265 **London (LSE),** *Statistics*, Diploma
71:266 **London (UC),** *Statistics*, Diploma
71:267 **New C (Durham),** *Mathematical education*, Diploma (Math Assoc)
71:268 **New C (Durham),** *Teaching mathematics to low attainers in secondary schools*, Diploma (Math Assoc)
71:269 **N Cheshire C,** *Mathematical education*, Diploma (Math Assoc)
71:270 **NE London Poly,** *Biometry*, Diploma (CNAA)
71:271 **NE London Poly,** *Models in statistics and operational research*, Diploma (CNAA)
71:272 **NE Wales IHE,** *Primary mathematics education*, Diploma
71:273 **Nottingham,** *Mathematics*, Diploma
71:274 **Poly of North London,** *Mathematics in the primary school*, Diploma (Math Assoc)
71:275 **Poly of North London,** *Operational research*, Diploma (CNAA)
71:276 **St Andrews,** *Mathematics*, Diploma
71:277 **St Andrews,** *Statistics*, Diploma
71:278 **St Mark & St John C (Plymouth),** *Teaching of mathematics to low-attaining pupils*, Diploma (Math Assoc)
71:279 **St Mary's C (Strawberry Hill),** *Mathematical education*, Diploma (Math Assoc)
71:280 **Sheffield City Poly,** *Teaching of mathematics to low-attaining pupils*, Diploma
71:281 **Southampton,** *Operational research*, Certificate
71:282 **Southampton,** *Statistics*, Certificate
71:283 **Southampton IHE,** *Operational research and computer techniques*, Diploma/Associateship of Inst, 1 yr f-t (deg or approved professional qual req); designed for grads with some industrial or commercial experience, but with no formal training in OR/computing; practical bias: students expected to carry out project work and industrial case studies using computer (VAX 11/780) (course supported by LEAs, OR Society and industrial training boards). Contact D Tromans, Course Supervisor
:284 **Strathclyde,** *Mathematical studies*, Diploma
71:285 **Strathclyde,** *Statistics*, Diploma
71:286 **Sunderland Poly,** *Mathematical education*, Diploma (Math Assoc)
71:287 **Thames Poly,** *Management of mathematics departments*, Diploma
71:288 **Ulster,** *Mathematical studies*, Diploma/Certificate
71:289 **Ulster,** *Statistics*, Diploma/Certificate
71:290 **West London IHE,** *Mathematical education*, Diploma (Math Assoc)
71:291 **West Midlands CHE (Walsall),** *Mathematical education*, Diploma (Math Assoc)

University of Sussex

MATHEMATICS

MSc

Taught courses are chosen from a list taken from the whole area of pure and applied mathematics including statistics. The subject matter reflects the research interests of the Mathematics faculty. Students also have to produce a dissertation. The course provides the necessary background for students intending to do a research degree.

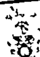
A special st MSc is also offered in Analysis and Partial Differential Equations.

MPhil/DPhil

Supervision is available in most areas of pure and applied mathematics and statistics. Areas in which there is a strong research interest include functional analysis and its applications to the modern theory of differential equations, low-dimensional topology and its interaction with group theory, finite geometries, category theory, probability theory, applied statistics, numerical analysis.

Further Information
The Chairman
Mathematics Division
University of Sussex, Brighton BN1 9QH

University College of Wales Aberystwyth



MATHEMATICS

PhD/MSc by Research. Supervision is available in the following areas.

Applied Mathematics: rheology, rheological flow problems together with experimental programme; differential equations; wave propagation in inhomogeneous media; control theory; numerical analysis; ill-posed problems; integral equations.

Pure Mathematics: algebra; group representation theory; design theory; permutation groups; ring theory; analysis; non-linear differential equations; functional analysis.

Statistics. Bayesian inference and decision theory; time series; educational testing; quality control and life testing; designing experiments and surveys; multivariate statistics; probability and stochastic processes; data processing and regularisation.

MSc by Coursework and Dissertation; Postgraduate Diploma (coursework only). One or two year programmes (depending on background). Courses to be selected from the following:

Applied Mathematics: Numerical analysis; wave propagation and ordinary differential equations; control theory and biological modelling; viscous flow and rheology.

Pure Mathematics: Topics in algebra; group representation theory; Lie algebras; design theory and finite geometry; nonlinear differential equations; dynamical systems; functional analysis.

Statistics. Bayesian inference and decision theory; linear models; sampling; applied statistics; probability and stochastic processes; simulation; reliability; queueing; time series; operational research; classical inference.

Enquiries to: Dr R J Owen, Postgraduate Admissions Tutor, Department of Mathematics, University College of Wales, Aberystwyth, Dyfed SY23 3BZ

University of Cambridge

STATISTICAL LABORATORY

Diploma in Mathematical Statistics

Applications are invited for this nine-month postgraduate course which includes statistical theory and practice together with some applied probability, operations research and relevant computing experience. Besides lectures and practical classes, students receive individual supervision throughout the course. They also work on an applied project for which they submit a short dissertation in May. The choices of available projects generally include such topics as telecommunications, operational research, medical statistics, eg, culture, psychology, economics. These projects arise from other departments within the University or from local industry or research institutes.

Candidates should normally have or expect to attain at least an upper second class honours degree in which mathematics is a major part. For further details, contact the Director of Studies, Statistical Laboratory, 16 Mill Lane, Cambridge CB2 1SB (telephone 0223 337954) preferably by 1 February 1987.

Mathematics at UEA Norwich

UEA NORWICH

The Un ers of Ea Ang ia has 2 School d Stud Art H ory & Music, Biological Sciences, Chemical Sciences, Development Studies, Economic & Social Studies, Education, English & American Studies, Environmental Sciences, Information Systems, Law, Mathematics & Physics, and Modern Languages & European History, all of which offer opportunities for postgraduate study. UEA's School of Mathematics and Physics offers the following:

MSc in Theoretical Mechanics. This course reflects he s rik ng ad ances mad n he mechanics of continuous media o e he last 40 years. I consists of seven lec ure course assessed by exam na ion on a wide ariety of topics in bo fluid and solid mechanics followed by a d sserta ion.

MSc in the Mathematics of Information Systems. Th course d aws together he many strand of modern pu ma hema ics and sta is ics tha are relevant to Informa S ms. The augh part of he course consists of many sh un ou e modules each las ng two or hree weeks. A fa pos d hese modules are independen of each other so hey ma be studied in isola ion be he full MSc programme.

PhD/MPhil by research. Supervision is a a lable in areas of fluid mechanics and solid mechanics and in theory, number heory, fini e geometries and time ana sis.

Further detail and application form may be obtained Dr D J Needham (CRAC), School of Mathematic Physics, University of East Anglia, Norwich NR4 T

Exeter University
Mathematical Sciences

PhD/MPhil Supervision available in the following areas: **pure maths:** commutative algebra, ring theory, modules, K theory, number theory, arithmetic and algebraic geometry, abelian group theory, nonassociative algebras, functional analysis, combinatorics, geometry and computer graphics

applied maths: geophysical fluid dynamics including dynamical oceanography and meteorology, stability theory, viscous flows, boundary layer theory, computational fluid mechanics, geomagnetism, numerical analysis, variational methods

MSc a one year programme of full time study combining course work assessed by examination and project work assessed by dissertation. Courses to be selected from those available which include:

applied maths dynamical oceanography, geomagnetism, atmospheric dynamics, stability theory, numerical analysis, spectral analysis, variational methods
pure maths Selection from algebraic geometry, combinatorics, commutative algebra, number theory, abelian group theory, rings and modules, classical analysis, rings of continuous functions

Diploma in Science Studies The diploma offers overseas students the opportunity to prepare to take a higher degree or research qualification in mathematics whilst at the same time improving their knowledge of the English language

Enquiries to The Postgraduate Admissions Tutor, Department of Mathematics, The University, Exeter EX4 4QE

University of Exeter
Department of Mathematical Statistics and Operational Research

The department undertakes supervised research leading to the degrees of MPhil or PhD in the following areas

Probability and Theoretical Statistics: Mathematical theory of epidemics, models for growth, filtered binary processes in continuous time, non linear processes in discrete time, image processing, likelihood inference, transformations, sample splitting and allied techniques, generalised linear models, compound distribution models

Applied Statistics Statistical epidemiology, perinatal statistics, *bioassay, clinical decision making, longitud*inal studies, animal population dynamics, medical time series, geographical data, correspondence analysis, graphical methods, statistical software

Operational Research visual interactive simulation, decision support systems, intelligent knowledge based systems, network problems and computer solutions, model building in commerce and industry, OR in developing countries, stock control, physical distribution, ambulance service management, diet *formulation problems in agriculture*

The Department also offers an MSc programme by *coursework and dissertation*

For further information please contact
The Postgraduate Admissions Tutor, MSOR Dept, Streatham Court, University of Exeter, Exeter EX4 4PU

MATHS
at
KING'S

King's College (KQC) (University of London) has a very large department of Pure and Applied Mathematics, which is housed on the Strand site in central London

PhD/MPhil: the largest research areas are in Quantum Mechanics, Relativity and a wide spread of topics centering on Analysis. Supervision can be offered in these areas and in several other areas of Pure and Applied Mathematics

MSc: the London Intercollegiate MSc can be taken at King's by full-time or part-time study

Diplomas include the Diploma in Classical and Quantum Gravity

Details: Postgraduate Admissions Officer, Mathematics Department, King's College, London WC2R 2LS.



LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY

The following MSc courses are available in the Mathematics Department

Mathematics of Modern Control Systems

The aim of this course is to provide the necessary mathematical techniques for studying control systems, and give a training suitable for both the industrial application of these techniques and continuing research into their theoretical aspects. The course is sufficiently broad for successful students to consider careers in various fields. This course is accepted by SERC for the award of its Advanced Course Studentships

Optimisation and Computing

This course has two aims: firstly to present modern methods of optimisation in such a way as to encourage both the theoretician and the practitioner, and secondly to provide an introduction to numerical analysis and computing with the emphasis on those topics of relevance to a user of optimisation techniques

For either course a good honours degree with a high mathematical content is required. Further details and application forms from Dr A C Pugh, Department of Mathematics

Loughborough *Leicestershire*

72 Physical sciences: acoustics, sound and vibrations

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

72.1 [illegible]
72.2 [illegible]
72.3 [illegible]
72.4 **Southampton,** *Sound and vibration studies,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

72.5 **Heriot Watt,** *Acoustics, vibration and noise control,* MSc/Diploma
72.6 **Salford,** *Acoustics,* MSc
72.7 **Southampton,** *Sound and vibration studies,* MSc/Diploma
72.8 **South Bank Poly,** *Environmental acoustics,* MSc/Diploma (CNAA)

73 Physical sciences: astronomy and space physics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

73:1 **Aberdeen,** *Natural philosophy,* MSc/PhD
73:2 **Aston,** *Mathematics and physics,* MPhil/PhD
73:3 **Belfast,** *Pure and applied physics,* MSc/PhD
73:4 **Birmingham,** *Space research,* MSc/PhD
73:5 **Cambridge,** *Astronomy,* MSc/PhD
73:6 **Durham,** *Physics,* MSc/PhD
73:7 **Edinburgh,** *Astronomy and astrophysics,* MPhil/PhD
73:8 **Glasgow,** *Astronomy,* MSc/PhD; supervision available; areas of research inc: *theoretical astrophysics:* plasma physics of solar flares, comets, accreting binaries, active galaxies; interpretation of solar x-ray, gamma-ray and microwave emission; image processing and inverse problems; theory of circum-stellar envelopes; *celestial mechanics:* stability of N-body systems esp solar system; numerical integration schemes; dynamical resonances; *cosmology:* sp soln of Einstein's eqns in cosmology and compact objects; *optical observation and instrumentation:* instrument design and prelim testing at Univ Observatory; observing programmes on SERC telescopes abroad; solar and stellar spectropolarimetry; atm studies; computer simulations and stat studies of data. Contact Professor Archie E Roy
73:9 **Hatfield Poly,** *Astronomy and earth sciences,* MPhil/PhD (CNAA)
73:10 **Keele,** *Physics,* MSc/PhD
73:11 **Lancashire Poly,** *Physics and astronomy,* MPhil/PhD (CNAA)
73:12 **Lancaster,** *Lunar and planetary studies,* MPhil/PhD
73:13 **Leicester,** *Astronomy,* MPhil/PhD
73:14 **London (Imperial),** *Astronomy and space physics,* MPhil/PhD
73:15 **London (Imperial),** *Remote sensing,* MPhil/PhD
73:16 **London (Queen Mary),** *Mathematics,* MPhil/PhD
73:17 **London (Queen Mary),** *Physics,* MPhil/PhD
73:18 **London (UC),** *Astronomy,* MPhil/PhD
73:19 **Manchester,** *Astronomy,* MSc/PhD
73:20 **Manchester,** *Radio astronomy,* MSc/PhD
3:21 **Manchester (UMIST),** *Physics,* MSc/PhD
:22 **Newcastle,** *Geophysics and planetary physics,* MSc/PhD
3:23 **Oxford,** *Astrophysics,* MSc/DPhil
73:24 **St Andrews,** *Astronomy and astrophysics,* MSc/PhD
73:25 **Southampton,** *Physics,* MPhil/PhD
73:26 **Sussex,** *Astronomy,* MPhil/DPhil
73:27 **Wales (Cardiff),** *Applied mathematics and astronomy,* MSc/PhD
73:28 **Wales (Cardiff),** *Astrophysics,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

73 29 **Edinburgh,** *Astronomical technology*, MSc/Diploma

73 30 [illegible]

73 31 [illegible]

73 32 [illegible]

ture and evolution high energy and nuclear astrophysics celestial dynamics plasma astrophysics planetary studies dissertation on individual projects for MSc Diploma students examined at end [illegible]

73 33 [illegible]

73 34 [illegible]

73 35 [illegible]

at Herstmonceux *course content compulsory* intro to astronomy structure of stars structure of galaxies high energy astrophysics and cosmology *options* 3 from 5 given each yr recent options inc accretion discs active galaxies and quasars cataclysmic variables elem particle physics [illegible]

73 36 [illegible]

List of chapter headings and numbers

on pages 42 and 43

74 Physical sciences: chemistry

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

74:1 **Aberdeen,** *Chemistry,* MSc/PhD

74:2 **Aston,** *Chemistry,* MPhil/PhD; projects offered in research groups: metalloorganic; aluminosilicates, humic acids, new materials based on selenium, tellurium and bismuth; neurochem; brain metabolism, tetrahydrobiopterin tetrahydrofolate biochem; polymers; processing and performance, speciality polymers, spectroscopic techniques. Contact Dr GB Briscoe

74:3 **Bath,** *Chemistry,* MSc/PhD; supervision available, research interests inc: surface chem, catalysis, spectroscopy at surfaces, solid state chem, theoretical prediction of solid structures, non-electrolyte and polymer solns, reactions in aqueous and non-aqueous systems, thermochem, organometallic and co-ordination chem of transition metals, polymer supported transition metal catalysts, group IV chemistry, Mossbauer spectroscopy, bio-inorg chem, geochem, radiochem, analytical chem, antibiotic chem, org chem and biochem of biol-important natural products, new synthetic methods in org chem, mass spectrometry, high field NMR spectroscopy, organophosphorus chem, organosulphur chem, org electrochem, photochem, chem of indoles and carbazoles, small peptide chem, new chem of carbohydrates, molecular modelling, molecular graphics. Contact Mrs E Bird

74:4 **Belfast,** *Chemistry,* MSc/PhD

74:5 **Birmingham,** *Chemistry,* MSc/PhD

74:6 **Birmingham Poly,** *Chemistry,* MPhil/PhD (CNAA)

74:7 **Bradford,** *Chemistry,* MPhil/PhD

74:8 **Brighton Poly,** *Applied chemistry,* MPhil/PhD (CNAA)

74:9 **Bristol,** *Chemistry,* MSc/PhD

74:10 **Bristol Poly,** *Chemistry,* MPhil/PhD (CNAA)

74:11 **Brunel,** *Chemistry,* MPhil/PhD; research interests in following areas, some specific projects named: *surface chem and thermal studies:* physical adsorption of gases and applications for characterisation of porous solids; *heterogenous catalysis:* structure, adsorptive and catalytic properties of metal catalysts and their use in processes of industrial and environmental importance; *solid state chem:* structure and properties of zeolitic materials and clays, interaction of these with organics; *inorg chem:* elucidation and interpretation of properties of ions in crystals of salts and in aqueous and org solns; synthetic org chem: organometallics in synthesis, total synthesis of natural products, asymmetric syntheses reactions under flash vac pyrolysis conditions, heterocyclic chem; *physical org chem:* reaction kinetics of chlorine isotopic exchange of aromatic chloro cpds, protodeacylation of aromatic ketones; hydrolysis of halogenomethanes, ring i expansion and contraction reactions, conformational studies; *industrial inorg chem:* metal chelatants from natural products, anti oxidants, borate chelatants, fluor naphthylimides, modifications of coals; *biol and medicinal org chem:* theoretical study of nucleic acid complexes, syntheses of cpds of potential use as anti-spasmodics and anti-asthma drugs, in treatment of cancer, and as chem probes of biol systems: *physical chem and spectroscopy:* esr and mo calculations on org free radicals, potentiometric and absorptiometric determination of stability constants; *chromatography:* detectors for permanent gas analysis; concentration systems for trace pollutants; gas chromatography; *nuclear science:* solvent extraction and ion-exchange, inorg soln chem, new refining process for rarer metals, isotopic exchange reactions; *environmental science:* use of catalysts in prevention or control of environmental pollution, studies of detoxification and disposal of industrial inorg and org waste. Contact Professor GC Bond

74:12 **Cambridge,** *Organic and inorganic chemistry,* MSc/PhD

74:13 **Cambridge,** *Physical chemistry,* MSc/PhD

74:14 **City,** *Chemistry,* MPhil/PhD; supervision available, research interests in following fields, some

specific projects named *inorg chem* inelastic electron tunnelling spectrosc [illegible] chem commercial applications of inorg cpds x ray crystallography [illegible] transition metal complexes and catalysts *org chem* photochem [illegible] photo-oxidation initiation of polymerisation and degradation [illegible] carbene chem org applications of hplc *biol chem* synthesis and med [illegible] chemotherapy and development of new reverse transcriptase inhibitors [illegible] and synthesis contraceptives diazosugars penicillin [illegible] gas phase flammability studies zeolite catalysis ion exchange [illegible] electrochem marine corrosion heterogeneous catalysis ion exchange [illegible] stirred reactors and single pellet reactor systems adsorption [illegible] homogeneous catalysis metal recovery as metal systems *industrial* [illegible] reactions scaling up problems in industrial synthesis [illegible]

74 15 City of London Poly, *Chemistry* [illegible]

74 16 Coventry (Lanchester) Poly, *Chemistry* MPhil PhD (CNAA)

74 17 Derbyshire CHE (Derby), *Applied chemistry* MSc MPhil PhD (CNAA) Contact Dr KC B[illegible]

74 18 Dundee, *Chemistry* MSc/PhD

74 19 Durham, *Chemistry* MSc/PhD facilities for research in all main branches [illegible] *chem* synthesis and chem of organofluorine cpds mechanism [illegible] polymer synthesis *inorg chem* synthesis [illegible] hydr[illegible] ferrofls synthesis and complexation of functionalised [illegible] cpds Se and Te cpds halogen and pseudohalogen derivs [illegible] activity of zeolites transition metal complexes [illegible] P and A[illegible] state nmr inelastic scattering of neutrons by [illegible] determining structural properties of molecular complexes [illegible] polymers plasma synthesis polymer characterisation Contact [illegible]

74 20 East Anglia, *Chemical sciences* MPhil PhD

74 21 Edinburgh, *Chemistry* MPhil/PhD

74 22 Essex, *Chemistry* MSc/MPhil/PhD

74 23 Exeter, *Chemistry* MPhil/PhD *See page 329* supervision available research in progress [illegible] synthesis [illegible] chem synthesis of biol active natural products and use of enzymes as catalysts in [illegible] amino acids peptides and peptide hormones reactions of molecular oxygen kinetics and mechanisms of org reactions synthesis and properties of organometallic cpds [illegible] transition metal alkyls and aryls synthesis and properties of metal clusters dynamic nmr spectroscopy of stereochem non rigid inorg cpds quantum mechanics of atom [illegible] properties of hydrogen bonded complexes from rotational and vibrational spectra [illegible] chem charge transfer processes structure physical properties and dynamics [illegible] underlying use of new inorg materials exptl and theoretical studies of the equilibrium properties of liq mixtures Contact Professor AC Legon

74 24 Glasgow, *Chemistry* MSc/PhD

74 25 Hatfield Poly, *Chemical sciences* MPhil/PhD (CNAA)

74 26 Heriot Watt, *Chemistry* MSc/PhD supervision available current research inc *physical chem* spectroscopy photochem polymer chem molecule and electron molecule interactions *org chem* C nucleosides peroxides mechanisms of enzyme action and design of enzyme inhibitors medicinal chem inc antibiotics and anti-cancer agents x ray diffraction *inorg chem* organometallic synthesis bio-inorg chem co ordination chem multi nuclear nmr analytical chem *applied chem sciences* coal liquefaction fuel science polymer science solid state science inc electrolytes and chem sensors Contact Professor BG Gowenlock

Huddersfield Poly, *Chemical and physical sciences* MPhil PhD (CNAA) supervision available for research current projects chem of β-lactam antibiotics enzyme inhibitors as drugs medicinal chem reaction mechanisms of biol interest biosensors immobilisation of enzymes macrocyclic ligands for metal ions carbocyclic analogues of penicillin suicide inhibitors of enzymes isolation of β-lactamase photochem of some constituents of polluted urban atms gas chromatography mass spectrometry heterocyclic chem synthesis and tautomerism of indenes hydride transfer reactions of biol interest ageing of polyacrylamide solns and its effect on flocculation synthesis of novel analgesics studies on polymerisation of acrylamide studies of divalent metal soaps dynamics and effects of persistent organochlorine pesticides into freshwater system estimating of water in org media applications of microcomputers in chem lab development of specific electrodes transition metal salt solvates studies on thermal behaviour of metal carboxylates [illegible] IUP [illegible] bility data [illegible] Contact Professor MI Page

Chemistry MSc/PhD

74 37 Leed Poly
74 38 Leice ter
74 39 Leicester Pol,
74 40 Liverpo l
74 41 [illegible]

o her fls in contact w th adsorbents and porou ma erial no g hem n he plexes non metal clusters and organometall c cpds new p pa
ndustr al catalys s metalloenzymes and chemo be ap ph a p p o edu
X ray crystallography mass spectrometry h at nal ep and nm pe
synthes s development of new synthet c me hodol g gan m
products and man made molecules cancer chem he
chem trans ent kinet c techn ques and d
nant DNA technolog

74 47 London (KQC) *Che*
w h sp emphas s on
nucleos des nucleot a u nucle c ac d
cha des and ol gosaccharides p os agland n
nane chem small and med um r ng al c cl c hen
organophosphorus organos l con o gan ulphu
of chem react ons n soln and ga ph d nam
spectroscopy mass spectrome ry rela n b
magnet c circular d chro sm and elect on ru u
trans tion metal complexes n ac a n o mal m e u
hypon trites and tr oxod n tra es b o no g hem m
metals theoret cal and compu a onal h m n
b osensors analys s of res due n ru and ge ab

74 48 London (Queen Mary) *Chem stry* MPh PhD

74 49 London (RHBC) *Chem stry* MPh l PhD

74 50 London (UC) *Chem stry* MPh l/PhD dep qu pp
and med chem theoret cal chem and cn m ph
facil ties current research syn he and
and organometallic cpd structu al and
nmr esr and ma s spectrometry and bv x e bo h h m
thermodynam cs of fls and fl m xtu
cellular bas s of allerg c d sease Contact P o e

74 51 Loughborough, *Chem stry* MPh l/PhD re e h a ML M G han H ad D p
analyt cal chem research gp act e am on e ned w h a
x ray crystallography polymer scien e ma
chemists b ochem sts m crob olog s s and pha ma olog
nterests of ndustrial compan s govt dep s etc full de a
Beck

Luton CHE, *Chem cal educat on* MPh l/PhD (CNAA

Luton CHE, *Chemistry* MPh l/PhD (CNAA)

Manchester *Chem stry* MSc PhD

Manchester (UMIST) *Chem stry* MSc/PhD

Manchester Poly *Instrumentation and analytical sc ence* MSc PhD

d-Kent CH & FE *Sc ence* MPh l/PhD (CNAA)

pier C (Ed nburgh) *Sc ence* MPh l/PhD (CNAA) supers on a a lable fo re ea ch nf ma
n ava lable from Head of Dept Contact Informa on Off ce

vcastle *Chemistry* MSc/PhD

vcastle Poly *Chemistry* MPh l/PhD (CNAA)

ondon Poly *Chemistry* MPh l/PhD (CNAA)

ales IHE, *Chemistry* MPh l/PhD (CNAA/Salford)

ffs Poly *Chem stry* MPh l/PhD (CNAA)

gham, *Chem stry* MPh l/PhD supers on a a lable ma n re earch n e e s *norg*
rganometall c ntermed ates by no el r spectroscop c techn ques react ons n non
sol ents esp l q ox des of N and n t ic ac d and hydrogen fluoride chem of l q alkal
of t n organo-t n ant mony and lead cpds v bra onal spect oscopy of organometall c
thet c o ganometall c chem *org chem* b osynthet c enzymat c and structural stud es in
trum of na ural produc s total synthes s of molecules of b ol importance syn het c
ogy nc pho ochem electrochem organometall c chem mechan st c *chem*
nm stud es of dynam c processes x ray crystallography
and m lecular beam chem and react on dynamics *cal*

cooled molecules; magnetic properties of materials; heterogeneous catalysis, org semiconductors and org metals inc biol aspects; colloid and interfacial chem, nmr relaxation; laser spectroscopy of molecular ions; reaction dynamics of molecular ions; surface chem and surface science. **Contact** Professor JP Simons

74:66 Open, *Chemistry,* BPhil/MPhil/PhD

74:67 Oxford, *Chemistry,* MSc/DPhil

74:68 Paisley CT, *Chemistry,* MPhil/PhD (CNAA)

74:69 Poly of North London, *Chemistry,* MPhil/PhD (CNAA)

74:70 Poly of Wales, *Science,* MPhil/PhD (CNAA)

74:71 Portsmouth Poly, *Chemistry,* MPhil/PhD (CNAA)

74:72 Reading, *Chemistry,* MPhil/PhD; supervision available, research interests under main headings shown, many topics (eg photochem and catalysis) range over all branches, sp interest in fundamental aspects of industrial processes, active research into range of environmental problems; *inorg chem:* synthetic chem of cpds of main gp and transition elements, with emphasis upon structure determination; co-ordination cpds; solid state chem (inc synthesis, testing and characterisation of heterogeneous catalysts); analytical chem (inc metal ion separation); *org chem:* photochem, development of new synthetic methods, new catalysts of oxidation and polymerisation inc organometallic cpds, development of synthetic pathways towards various anti-cancer agents, kinetic studies in soln at high pressures and transmission of electronic effects; *physical chem:* kinetics of gas-phase reactions (methylene and silylene reactions, radical processes and laser induced decompositions), molecular spectroscopy (rotational, vibrational and electronic spectra, inc high overtone and molecular beam studies), electrochem and surface chem (conductance of aqueous electrolyte solns, study of emulsions and Langmuir-Blodgett films). **Contact** Professor GWA Fowles

74:73 St Andrews, *Chemistry,* MSc/PhD

74:74 Salford, *Chemistry and applied chemistry,* MSc/PhD *See page 329*

74:75 Scottish C Textiles (Galashiels), *Applied chemistry,* MPhil/PhD

74:76 Sheffield, *Chemistry,* MSc/PhD

74:77 Sheffield City Poly, *Chemistry,* MPhil/PhD (CNAA)

74:78 Southampton, *Chemistry,* MPhil/PhD; supervision available, research interests inc: liq crystals, membranes, nmr spectroscopy of liq crystals, computer simulation of surfaces, molecular liqs, quantum chem; modulated specular reflectance spectroscopy, inter-facial electrochem using ex-situ uhv techniques, semiconductor photoelectrochem, fast ion conductors, methods for investigating kinetics of electrochem reactions, electrochem eng and industrial chem, spectroscopic structural studies of inorg cpds, matrix isolation of high temp spp, metal carbonyl clusters, homogeneous and heterogeneous catalysis, environmental analysis and speciation, inorg chem in molten salts, co-ordination and organometallic chem, inorg biochem and nuclear medicine, design and synthesis of new materials, x-ray and neutron diffraction; natural product synthesis, bio-org chem, molecular modelling for study of biomolecular shape and conformation, synthetic methods and org reactions, org electrochem, novel oxidation methods, theoretical org chem; h-p and high temp chem, gas phase studies of structure and reactions of molecules using molecular beam laser spectroscopy, mass spectrometry and glc photoelectron spectroscopy of unstable molecules, chem of gas-solid interface, ellipsometry in study of interfacial properties. Contact Dr DE Rogers

4:79 Stirling, *Chemistry,* MSc/PhD

4:80 Strathclyde, *Pure and applied chemistry,* MSc/PhD; supervision available in following areas, some specific projects named: *physical chem:* crystal chem, molecular electronics and opto-electronics application of X-ray and electron techniques to study of solids and surfaces, electrical properties of polymers, theoretical chem, laser photochem; *org chem:* organotransition-metal cpds, study of enzyme action and inhibition, synthetic methods, synthesis of potential drugs, natural products, org matrix isolation, free radicals; *inorg chem:* preparative and spectrometric studies of complexes, bio-inorg chem esp of copper and gold, main gp chem esp boron and lithium, development of novel analytical instrumentation and procedures, theoretical aspects of inorg chem; *chem technology:* electrochem inc reactor designs, corrosion and surface studies, kinetic investigations of new photo-initiated polymerisations, use of polymer gels as industrial extractants, basic chem processes of ore flotation and ore solvent extraction, preparation of semi-conductor materials by chem vapour deposition; *fibres and textiles:* fibre physics, fibre chem, rheology and evaluation of textile fabrics, relations betwn molecular structure of high polymers and properties of fibres produced from polymers; *forensic science:* new methods of forensic investigation, case studies, biol, spectroscopy and chromatographic method development, specimen identification, correlation of evidence.

81 Sunderland Poly, *Physical sciences,* MPhil/PhD (CNAA)
82 Surrey, *Chemistry,* MPhil/PhD
83 Sussex, *Chemistry and molecular sciences,* MPhil/DPhil

intermolecular forces, molecular dynamics, *transition metal chem* synthesis, spectroscopy and electrochem of novel transition metal cpds, *structural and surface chem* physical adsorption of gases and vapours **Contact** Professor AJ McCaffery
84 Teesside Poly, *Chemistry,* MPhil/PhD (CNAA)
85 Thames Poly, *Chemistry,* MPhil/PhD (CNAA)
86 Trent Poly, *Physical sciences,* MPhil/PhD (CNAA)
87 Ulster, *Chemistry,* MPhil/DPhil
88 Wales (Aberystwyth), *Chemistry,* MSc/PhD research interests in following fields high resolution molecular spectroscopy, Raman and other

electronic structure theory
photochromism, synthesis of
conductors and electro acti
of their applications as cata
89 Wales (Bangor), *Chemistry,*
90 Wales (Cardiff), *Chemistry,* MSc/PhD
91 Wales (Swansea), *Chemistry,* MSc/PhD
92 Wales (Swansea), *Chem*
93

low molecular weight Fe, Cu and Zn complexes *in vivo*

94 Warwick, *Ch*
physical che
synthetic, st
co-ordinatic
props of ne
react

95 Wolverhampton Poly, *Chem*
96

cooled molecules; magnetic properties of materials; heterogeneous catalysis, org semiconductors and org metals inc biol aspects; colloid and interfacial chem, nmr relaxation; laser spectroscopy of molecular ions; reaction dynamics of molecular ions; surface chem and surface science. Contact Professor JP Simons

74:66 **Open,** *Chemistry,* BPhil/MPhil/PhD

74:67 **Oxford,** *Chemistry,* MSc/DPhil

74:68 **Paisley CT,** *Chemistry,* MPhil/PhD (CNAA)

74:69 **Poly of North London,** *Chemistry,* MPhil/PhD (CNAA)

74:70 **Poly of Wales,** *Science,* MPhil/PhD (CNAA)

74:71 **Portsmouth Poly,** *Chemistry,* MPhil/PhD (CNAA)

74:72 **Reading,** *Chemistry,* MPhil/PhD; supervision available, research interests under main headings shown, many topics (eg photochem and catalysis) range over all branches, sp interest in fundamental aspects of industrial processes, active research into range of environmental problems; *inorg chem:* synthetic chem of cpds of main gp and transition elements, with emphasis upon structure determination; co-ordination cpds; solid state chem (inc synthesis, testing and characterisation of heterogeneous catalysts); analytical chem (inc metal ion separation); *org chem:* photochem, development of new synthetic methods, new catalysts of oxidation and polymerisation inc organometallic cpds, development of synthetic pathways towards various anti-cancer agents, kinetic studies in soln at high pressures and transmission of electronic effects; *physical chem:* kinetics of gas-phase reactions (methylene and silylene reactions, radical processes and laser induced decompositions), molecular spectroscopy (rotational, vibrational and electronic spectra inc high overtone and molecular beam studies), electrochem and surface chem (conductance of aqueous electrolyte solns, study of emulsions and Langmuir-Blodgett films). Contact Professor GWA Fowles

74:73 **St Andrews,** *Chemistry,* MSc/PhD

74:74 **Salford,** *Chemistry and applied chemistry,* MSc/PhD *See page 329*

74:75 **Scottish C Textiles (Galashiels),** *Applied chemistry,* MPhil/PhD

74:76 **Sheffield,** *Chemistry,* MSc/PhD

74:77 **Sheffield City Poly,** *Chemistry,* MPhil/PhD (CNAA)

74:78 **Southampton,** *Chemistry,* MPhil/PhD; supervision available, research interests inc: liq crystals, membranes, nmr spectroscopy of liq crystals, computer simulation of surfaces, molecular liqs, quantum chem; modulated specular reflectance spectroscopy, inter-facial electrochem using ex-situ uhv techniques, semiconductor photoelectrochem, fast ion conductors, methods for investigating kinetics of electrochem reactions, electrochem eng and industrial chem; spectroscopic structural studies of inorg cpds, matrix isolation of high temp spp, metal carbonyl clusters, homogeneous and heterogeneous catalysis, environmental analysis and speciation, inorg chem in molten salts, co-ordination and organometallic chem, inorg biochem and nuclear medicine, design and synthesis of new materials, x-ray and neutron diffraction; natural product synthesis, bio-org chem, molecular modelling for study of biomolecular shape and conformation, synthetic methods and org reactions, org electrochem, novel oxidation methods, theoretical org chem; h-p and high temp chem, gas phase studies of structure and reactions of molecules using molecular beam laser spectroscopy, mass spectrometry and glc photoelectron spectroscopy of unstable molecules, chem of gas-solid interface, ellipsometry in study of interfacial properties. Contact Dr DE Rogers

74:79 **Stirling,** *Chemistry,* MSc/PhD

74:80 **Strathclyde,** *Pure and applied chemistry,* MSc/PhD; supervision available in following areas, some specific projects named: *physical chem:* crystal chem, molecular electronics and opto-electronics, application of X-ray and electron techniques to study of solids and surfaces, electrical properties of polymers, theoretical chem, laser photochem; *org chem:* organotransition-metal cpds, study of enzyme action and inhibition, synthetic methods, synthesis of potential drugs, natural products, org matrix isolation, free radicals; *inorg chem:* preparative and spectrometric studies of complexes, bio-inorg chem esp of copper and gold, main gp chem esp boron and lithium, development of novel analytical instrumentation and procedures, theoretical aspects of inorg chem; *chem technology:* electrochem inc reactor designs, corrosion and surface studies, kinetic investigations of new photo-initiated polymerisations, use of polymer gels as industrial extractants, basic chem processes of ore flotation and ore solvent extraction, preparation of semi-conductor materials by chem vapour deposition; *fibres and textiles:* fibre physics, fibre chem, rheology and evaluation of textile fabrics; relations betwn molecular structure of high polymers and properties of fibres produced from polymers; *forensic science:* new methods of forensic investigation, case studies, biol, spectroscopic and chromatographic method development, specimen identification, correlation of evidence.

74 81 Sunderland Poly, *Physical sciences*, MPhil/PhD (CNAA)

74 82 Surrey, *Chemistry*, MPhil/PhD

74 83 Sussex, *Chemistry and molecular sciences* MPhil/DPhil research interests in following some specific projects named *biol chem and molecular enzymology* target enzymes for drug sensors fungal metabolites physical techniques in enzymology *chem physics and spectro* astrophysical chem high resolution spectroscopy of transient molecules and novel species spectroscopy collision and reaction dynamics using laser methods energy transfer mol beam studies of clusters and dynamical processes *environmental science* soil erosion cont schistosomiasis ecology of snails *main gp element chem* discovering new types of cpds of ma elements *organometallic chem* main gp elements transition metals f block metals *physical chem* investigation of fundamentals of molecular change *theoretical chem* valence the intermolecular forces molecular dynamics *transition metal chem* synthesis spectroscopy electrochem of novel transition metal cpds *structural and surface chem* physical adsorptio gases and vapours Contact Professor AJ McCaffery

74 84 Teesside Poly, *Chemistry* MPhil/PhD (CNAA)

74 85 Thames Poly, *Chemistry* MPhil/PhD (CNAA)

74 86 Trent Poly, *Physical sciences* MPhil/PhD (CNAA)

74 87 Ulster, *Chemistry* MPhil/DPhil

74 88 Wales (Aberystwyth), *Chemistry* MSc/PhD research interests in following fields high resolutio molecular spectroscopy Raman and other aspects of 2 photon spectroscopy molecular interac tions and dynamics in condensed phases dielectric Kerr effect studies for i r and theoretic studies on polymers liqs and liq crystals gas phase kinetics and gas solid interactions studies o electronic structure theory electrochem electron spectroscopy in inorg and surface chem photochromism synthesis of cpds of medicinal and biol interest org molecular complexes org conductors and electro active materials organometallic chem study of properties of silicates and of their applications as catalysts in org reactions Contact Dr AH Price

74 89 Wales (Bangor), *Chemistry* MSc/PhD

74 90 Wales (Cardiff), *Chemistry* MSc/PhD

74 91 Wales (Swansea), *Chemistry* MSc/PhD

74 92 Wales (Swansea), *Chemistry* MSc/PhD

74 93 Wales (UWIST), *Applied chemistry* MSc/PhD supervision available research interests in follow ing fields some specific projects named *analytical chem* ion selective electrodes inc enzyme based sensors and their application medical diagnostic screening methods and surfactant analysis separations and extractions of analytical and environmental interest wine chem applications of polarography *bio inorg chem* computer simulation of biol systems and radwaste disposal trace element pharmacology low molecular weight Fe Cu and Zn complexes *in vivo* *org medicinal chem heterocyclic cpds* synthesis of new O N and S heterocycles of potential value as drugs and of biol active natural products hydrazones and conjugated heteroenoid cpds synthesis of potential anti-cancer agents and pesticides for correlation analysis chromones benzimidazoles photochromic cpds *polymer science and technology* kinetics and mechanisms of polymerisation processes, polymer autoxidation and degradation branching and other irregularities in polymer structure diffusion and gel formation in polymer systems chem of poly (vinyl chloride) and its formation Contact Professor David R Williams

74 94 Warwick, *Chemistry*, MSc/PhD supervision available for research in gen areas of inorg org physical chem and also biochem research interests are concerned with following topics inorg synthetic, structural and mechanistic aspects of both main gp and transition elements with sp ref to co-ordination and organometallic chem and bio-inorg mechanisms org and bio-org synthesis and props of new heterocyclic and organometallic cpds models of enzymatic reactions enzymatic reactions in org synthesis synthesis of enzyme inhibitors and biol intermediates magnetic reso nance techniques applied to chem and biochem problems investigation of synthesis and props of oligo- and polynucleotides chem/biochem studies of olfaction physical fundamental and analyti cal aspects of mass spectrometry and gas phase ion chem potential energy surfaces and chem dynamics of ion-molecule reactions photochem and esr of radicals in soln electrochem kinetics ion selective electrodes and synthetic sensors structural and analytical applications of h ... field nmr spectrometry, lattice energy calculations and the solid state C... Wallbridge Chairman

Wolverhampton Poly, *Chemistry* ...

York, *Chemistry*, MPl ... leads to thesis on cho... chem and biochem in ... e covered and dept is well ... inorg

equipped with mod specialist facilities; project, which is always carried out under direct supervision of member of academic staff, designed to provide first class training in research: in addition, imaginative programme of course-work provides research students with opportunity to broaden their interests and to gain experience of writing and speaking about technical matters: the department is an integral part of attractive university campus set round a lake and situated on edge of mediaeval city of York. **Contact** Dr CJ Garrat

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

74:97 **Aberdeen,** *Analytical chemistry,* MSc/Diploma

74:98 **Aberdeen,** *Silicate and solid state chemistry,* MSc

74:99 **Belfast,** *Analytical chemistry,* MSc/Diploma

74:100 **Bristol,** *Advanced analytical chemistry,* MSc, 1c yr f-t; *course content:* analytical spectroscopy (x-ray diffraction and fluor, i-r inc absorption and emission modes of spectroscopy), techniques of separation (eg solvent extraction, chromatography), electroanalytical chem (electrode processes, polarography, chronopotentiometry, coulometric procedures), instrumental methods in gen inc mass spectroscopy and nmr inc FT types: also short courses on computer programming (Fortran and Basic), theory of electronic networks, applications to industrial and environmental problems (SERC). **Contact** Professor FGA Stone

74:101 **Bristol,** *Surface chemistry and colloids,* MSc, 1c yr f-t (gd hons deg in chem, biochem or physics req); *course content:* nature of surfaces and thermodynamics of adsorption, capillary condensation, chemisorption at solid surfaces; adsorption at liquid interfaces, surface active agents; electrical double layer, colloid stability, thin films; hydrodynamics and light scattering in colloids, synthetic and natural polymers; nucleation and growth of particles, microscopy, spectroscopy, x-ray diffraction and rheology of colloids; 3 mths research project (SERC). **Contact** Professor RH Ottewill

74:102 **Bristol Poly,** *Instrumental analysis,* MSc (CNAA)

74:103 **City,** *Industrial and administrative sciences,* MSc/Diploma

74:104 **East Anglia,** *Chemical education,* MSc

74:105 **East Anglia,** *Chemical physics,* MSc

74:106 **East Anglia,** *Chemical spectroscopy,* MSc

74:107 **East Anglia,** *Co-ordination chemistry,* MSc

74:108 **East Anglia,** *Heterocyclic chemistry,* MSc

74:109 **East Anglia,** *Physical organic chemistry,* MSc

74:110 **East Anglia,** *Spectroscopic and physical methods of chemical analysis,* MSc

74:111 **Essex,** *Aerosol science and technology,* MSc *See page 329*

74:112 **Glasgow,** *Applications of radiochemistry in inorganic and surface chemistry,* MSc

74:113 **Hatfield Poly,** *Industrial chemistry,* MSc (CNAA)

74:114 **Hull,** *Analytical science,* MSc/Diploma

74:115 **Kingston Poly,** *Analytical chemistry,* MSc (CNAA)

74:116 **Lancashire Poly,** *Analytical chemistry,* MA (Lancaster)

74:117 **Lancaster,** *Analytical chemistry,* MA

74:118 **Leeds,** *Colour chemistry,* MSc, 1-2 yrs f-t; *syllabus:* intro to colouring matters, coloration and colour measurement; org chem of dyes and pigments; spectroscopy and prediction of colour; physical properties of colouring matters; practical project work. **Contact** Dr G Hallas

74:119 **Liverpool Poly,** *Analytical chemistry,* MSc (CNAA)

.120 **London (Birkbeck),** *Analytical chemistry,* MSc

:121 **London (Birkbeck),** *Computer modelling of molecular and biological processes,* MSc

74:122 **Loughborough,** *Analytical chemistry and instrumentation,* MSc/ALUT, 1c yr f-t: available p-t; intended for those aspiring to senior appointments in industry etc; *course content:* adv classical analysis, atomic and molecular absorption and luminescence analysis, electron spectroscopy and x-ray methods, nmr and esr spectroscopy, mass spectroscopy, electro-analytical methods, radiochem analysis, thermal methods of analysis, enzymatic and immunol methods of analysis and microbiol assay, chromatographic and electrophoretic methods of analysis, optical and electronic

principles of instrument design automated chem analysis applications of above inorg biol and composite matrices intro to computing library services and data re (may be carried out in place of employment) (SERC) Contact GE Beck

74 123 Loughborough, *Medicinal chemistry* MSc/ALUT 1c yr f t available p-t concerne standing of chem and biol mechanisms of drug action *course content* concepts in d drug-cell interactions (pharmacology microbiol immunol) drug presentation d nuclear medicine legal aspects research project (MRC) Contact GE Beck

74 124 Manchester (UMIST), *Instrumentation and analytical science* MSc/Diploma

74 125 Manchester (UMIST), *Petrochemicals and hydrocarbon chemistry* MSc/Diploma

74 126 Manchester Poly, *Strategies in organic synthesis* MSc/Diploma (CNAA)

74 127 Newcastle Poly, *Analytical chemistry* MSc (CNAA)

74 128 NE Wales IHE, *Chemistry* MSc (Salford)

74 129 N Staffs Poly, *Analytical chemistry* MSc (CNAA)

74 130 Poly of North London *Synthetic organic chemistry* MSc (CNAA)

74 131 Reading, *Chemical education* MSc

74 132 Salford, *Analytical chemistry* MSc

74 133 Salford, *Applied heterocyclic chemistry* MSc

74 134 Salford, *Radiochemistry radiation chemistry and nuclear technology* MSc

74 135 Salford, *Thermal analysis* MSc

74 136 Sheffield City Poly *Chemical pollution monitoring* MSc/Diploma (CNAA)

74 137 Sheffield City Poly *Instrumental chemical analysis* MSc (CNAA)

74 138 Southampton *Electrochemical science* MSc

74 139 Strathclyde, *Instrumental methods of analysis* MSc/Diploma 1c 2c yrs f t 2c 3c yrs p-t (M 1c yr f t (Diploma) sp ref to metallurgical and trace analysis *syllabus* atomic spectra (principle atomic spectroscopy atomic structure) atomic absorption spectrometry (flame electrotherm atomisation hydride generation and cold vapour procedures) atomic emission spectromet (theory of emission spectrometry characterisation of flames plasmas arc spark hollow cathoc discharges) atomic fluor spectrometry automatic methods of analysis (automatic analysers centrifugal analysers flow injection) chromatography (GC HPLC ion exchange principles o separation) computers in analytical chem electroanalytical chem (potentiometry anodic strip-ping voltammetry coulometry principles of techniques) equilibria in analytical chem kinetic principles of importance in analytical chem mass spectrometry principles of metallurgical analysis (analysis of gases in metals thermodynamics of a binary alloy) radioanalytical chem (special course at reactor centre) Raman and i r spectroscopy sampling and sample preparation stats surface analysis (X ray photoelectron spectroscopy Auger electron spectroscopy SIMS X ray diffraction) UV/Vis spectrophotometry X ray fluor spectrometry (energy dispersive and wavelength dispersive) detailed lab exercises industrial visits thesis for MSc (SERC)

74 140 Surrey, *Chemical and biochemical sciences and education* MSc/Diploma 2 yrs p-t (MSc) 1 yr p-t (Diploma) *course content term 1* revision of fundamental concepts in physics and chem molecu lar biol (for chemists only) basic principles of quantum theory and factors determining extent and rate of chem processes (for biologists only) educational component (curriculum studies) *terms 2 and 3* production of detergents and pharmaceuticals (research lab to market place) enzymes (kinetics and mechanism) mitochondria and chloroplasts computing educational studies (as *term 1*) teaching project *yr 2* (for MSc) 3 options from biochem mod methods of synthesis and structure determination in chem chem analysis in industry biotechnology applications of com puter methods microelectronics and math techniques to problems in chem biochem and biol educational component (modular integrated environmental and applied approach to science teaching chem biol and GCSE leadership and organisation science technology and society) individual teaching project (recognised for secondment by DES) Contact Dr TM Poole Chemis try Department

41 Sussex, *Chemical physics* MSc 1c yr f t *course content terms 1 and 2* emphasis on molecular and electronic structure determination through spectroscopic techniques use of lasers molecular reaction dynamics using molecular beam and laser techniques choice of options from list inc chem physics in industry astrophysical chem high temp chem *term 3* project leading to dissertation Contact Professor AJ McCaffery

Sussex, *Medicinal chemistry* MSc 1c yr f t application of chem and biochem to development of new drugs *course content* intro medicinal chem chem and mechanism of actio la vitamins and co-enzymes chem and mode of action of hormones structure and s computer raph cs and drug design structure and biochem of selected n lism and

pharmacokinetics, action of drugs (inc discussion of antibiotics, anti-hypertensive, anti-ulcer, anti-fertility, anti-inflammatory, cardiac and anti-parasitic drugs, CNS drugs, analgesics, histamine H-2 antagonists and enzyme inhibitors as drugs); exam and dissertation. **Contact** Professor AJ McCaffery

74:143 **Sussex,** *Organometallic chemistry,* MSc, 1c yr f-t; *course content:* cpds of particular elements, structures, bonding, reactions, reaction mechanisms, radicals, thermochem, clusters, spectroscopy, X-ray diffraction, applications in org synthesis and catalysis (inc polymer chem); exam, literature survey and dissertation on 8 mth research project. **Contact** Professor AJ McCaffery

74:144 **Thames Poly,** *Chemical analysis,* MSc/Diploma (CNAA)

74:145 **Ulster,** *Applications of chemical spectroscopy,* MSc

74:146 **Wolverhampton Poly,** *Instrumental chemical analysis,* MSc/Diploma (CNAA)

74:147 **York,** *Chemistry,* MSc

74:148 **York,** *Chemistry and chemical education,* MSc

Certificates and diplomas

74:149 **Aberdeen,** *Advanced chemistry,* Diploma

74:150 **Cambridge,** *Chemistry,* Certificate

74:151 **East Anglia,** *Chemical sciences,* Diploma

74:152 **East Anglia,** *Chemistry and chemical education,* Diploma

74:153 **Edinburgh,** *Environmental chemistry,* Diploma

74:154 **Essex,** *Chemistry,* Diploma

74:155 **Lancaster,** *Chemistry,* Diploma

74:156 **London (RHBC),** *Chemistry,* Diploma

75 Physical sciences: crystallography

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

75:1 London (Birkbeck), *Crystallography,* MPhil/PhD
75:2 Manchester (UMIST), *Pure and applied physics,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

75:3 London (Birkbeck), *Crystallography,* MSc, 1 yr f-t: 2 yrs p-t; joint course with London (UC), available p-t at London (Birkbeck) only; designed to give knowledge of diffraction techniques and electron microscopy, understanding of crystalline inorg and org structures, study of more complex biomolecular structures such as proteins, nucleic acids and viruses; also topics on less-crystalline aspects of matter such as cement and its composites and amorphous states such as liqs and glassy solids; qual course available for entrants without relevant deg; *course content:* inc biomolecular structure, mod materials and industrial techniques, applications of electron microscopy; continuous assessment of coursework, written exam, essay paper and oral (SERC). **Contact** Professor TL Blundell
75:4 London (UC), *Crystallography,* MSc

Physical sciences: electronics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies' section

- **Aberdeen,** *Natural philosophy,* MSc/PhD
- 2 **Durham,** *Applied physics and electronics,* MSc/PhD
- 3 **East Anglia,** *Electronics,* MPhil/PhD supervision available for research in School of Information Systems, research interests inc CAD of digital systems inc investigation of algorithmic methods and development of software tools (sponsored by SERC Alvey) speech recognition by means of neural network computer models (sponsored by British Telecom Research Laboratories) under water acoustics inc transducer design data transmission remote sensing and evolution of relevant expert system design tools (sponsored by SERC Marine Technology Directorate Plessey Marine Ltd and various other industrial concerns) Contact Senior Administrative Assistant SIS, UEA
- 76 4 **Keele,** *Electronics,* MSc/PhD
- 76 5 **Newcastle Poly,** *Electrical engineering and physical electronics,* MPhil/PhD (CNAA)
- 76 6 **Southampton,** *Electronics and information engineering,* MPhil/PhD
- 76 7 **Wales (UWIST),** *Electronics,* MEng/MSc/PhD
- 76 8 **Wales (UWIST),** *Microelectronics and semiconductor devices,* MSc/PhD
- 76 9 **Warwick,** *Electronics,* MPhil/PhD
- 76 10 **York,** *Electronics,* MPhil/DPhil *See page 332*

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

- 76 11 **Belfast,** *Electronics,* MSc
- 76 12 **Belfast,** *Opto-electronics and optical information processing,* MSc
- 76 13 **Durham,** *Electronics,* MSc
- 76 14 **Durham,** *Engineering (microelectronics),* MEng
- 76 15 **Essex,** *Lasers and their applications,* MSc/Diploma
- 76 16 **Heriot Watt,** *Opto-electronic and laser devices,* MSc 1 yr f t available p-t (hons deg or approved lesser qual plus experience req) joint course with St Andrews p-g training in mod optics and semiconductor physics tailored to needs of optoelectronics industry fundamental properties of optoelectronic materials and experience of technology and operation of wide range of laser and semiconductor devices at both univ and in industry details available from either univ (SERC Contact Professor BS Wherrett
- 76 17 **Lancaster,** *Semiconductor devices,* MSc
- 76 18 **Middlesex Poly,** *Microelectronics engineering,* MSc/Diploma
- 76 19 **Newcastle Poly,** *Opto-electronics,* MSc/Diploma (CNAA)
- 76 20 **Nottingham,** *Modern electronics,* MSc
- 76 21 **St Andrews,** *Opto-electronic and laser devices,* MSc
- 76 22 **Southampton,** *Electronics,* MSc/Diploma
- 76 23 **Wales (UWIST),** *Electronics* MSc/Diploma

Certificates and diplomas

76:24 **Lancaster,** *Physics and electronics,* Diploma
76:25 **Newcastle,** *Applied electronics,* Diploma/Certificate
76:26 **St Andrews,** *Electronics,* Diploma
76:27 **St Andrews,** *Opto-electronics and laser devices,* Diploma

Read the displayed advertisements for additional information

Index starts on page 518

77 Physical sciences: geology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies' section

77.1 **Aberdeen,** *Geology,* MSc/PhD
77:2 **Aston,** *Geological sciences,* MPhil/PhD
77.3 **Belfast,** *Geology,* MSc/PhD
77.4 **Birmingham,** *Geological sciences,* MSc/PhD
77.5 **Bristol,** *Geology,* MSc/PhD
77.6 **Cambridge,** *Earth sciences,* MSc/PhD
77:7 [illegible]
77 8 [illegible]
77:9 [illegible]

ontogeny of silicified trilobites from N America, *stratigraphy* Ordovician rocks of Oslo region of Norway, and S Scotland Contact Professor DM Ramsay
77.10 **Durham,** *Geological science,* MSc/PhD
77:11 **East Anglia,** *Environmental sciences,* MPhil/PhD, wide range of research, principal areas of [illegible]

management, human geog, locational analysis, rural and urban planning, environmental [illegible]

Quaternary geol, chem of rainfall and long term changes in atm composition, lab and field studies of lower continental crust, urban conservation, coastal geomorphology of E Anglia, soil science, remote sensing and pre Hispanic agriculture, deposition of pollutants Contact D Marshall
77.12 **Edinburgh,** *Geology,* MPhil/PhD
77:13 **Exeter,** *Geology,* MPhil/PhD
77:14 [illegible]
77:15 [illegible]
77:16 [illegible]
77:17 [illegible]
77:18 **Lancaster,** *Solid earth geophysics and geology,* MPhil/PhD
77:19 **Leeds,** *Earth sciences,* MPhil/PhD *See page 337*
77.20 **Leicester,** [illegible]

reserve calculation, micropalaeontology esp Ostracoda, speleology. **Contact** Registrar (Higher Degrees)

77:21 Liverpool, *Geological sciences,* MSc/PhD; research and supervision in all main branches of geol, inc structural geol, sedimentology, geochem, palaeontology and stratigraphy, mineralogy and petrology, eng geol, geophysics. **Contact** Dr PJ Brenchley

77:22 London (Birkbeck), *Geology,* MPhil/PhD

77:23 London (Goldsmiths'), *Geology,* MPhil/PhD

77:24 London (Imperial), *Engineering geology,* MPhil/PhD

77:25 London (Imperial), *Geology,* MPhil/PhD

77:26 London (Queen Mary), *Geography and earth science,* MPhil/PhD

77:27 London (RHBC), *Geology,* MPhil/PhD; supervision available, main areas of research: *geochem:* crust-mantle interactions, low temp geochem; *basin dynamics:* study of crustal dynamics and basement controls of basin evolution, structural geol and tectonics, palaeontology. **Contact** Dr JN Walsh

77:28 London (UC), *Geology,* MPhil/PhD

77:29 Manchester, *Geology,* MSc/PhD; supervision available, interests in: stratigraphy, sedimentology, structural geol, palaeontology, igneous and metamorphic petrology, mineralogy, geochem, econ geol, exptl petrology, geophysics; projects inc: petrology, mineralogy and geochem of layered intrusions, granites, alkaline rocks, volcanic rocks, laterites and ore deposits; silicate systems at high pressure and temps; carbonatites and kimberlites; transport of elements in vapour phase; synthesis of complex sulphides; metamorphism in Alps and Scottish Caledonides; structural studies in Caledonides of Norway, Sweden, N Wales and Scotland; sedimentology (S and C Wales, N England, Libya, Majorca); calcretes; coal geol; carboniferous ostracoda; palaeoecology; trace fossils; palaeobotany (Lower Cretaceous floras); x-ray and electron microscope studies of structures and phase transformations of minerals and metamorphic reactions; thermal expansions of silicate crystals and melts; computer graphics in geol and geophysics; data collection and processing with field microcomputers. **Contact** Professor Jack Zussman

77:30 Newcastle, *Geology,* MSc/PhD

77:31 N Staffs Poly, *Geological sciences,* MPhil/PhD (CNAA); supervision available for research in: structural geol, mineral deposits and their geochem and geophysical expression, carbonate sediments and assoc faunas. **Contact** Dr MJ Fleuty

77:32 Nottingham, *Geology,* MPhil/PhD

77:33 Open, *Earth sciences,* BPhil/MPhil/PhD

77:34 Oxford, *Earth sciences,* MSc/DPhil

77:35 Oxford Poly, *Geology and physical sciences,* MPhil/PhD (CNAA); supervision available, gen research areas: *geol:* petrogenesis of igneous rocks; mineralisation in cratonic and orogenic regions; sedimentology in coalfield areas and volcanic environments; taxonomy, evolution and ecology of Mesozoic faunas; use of computers in geol; *physical sciences:* studies of carbaboranes, boron hydrides and related substances; studies of amino acids and sulphur cpds; use of lasers, computers and raman spectroscopy in physical sciences; energy characteristics of alpha particles in various media; optical properties of materials for solar energy conversion; *specific grad projects:* geol studies in Fiji; petrogenesis of igneous rocks in Channel Islands; geol studies of Closepet granite, India; sedimentology in Midland Valley, Scotland; optical techniques for non-invasive physiol measurements; computer simulations of scientific instruments; transparent coatings for energy efficient windows; optical bio-sensors for medical applications. **Contact** Dr H Colley

77:36 Poly of North London, *Geography,* MPhil/PhD

77:37 Portsmouth Poly, *Geology,* MPhil/PhD (CNAA)

77:38 Reading, *Geology,* MPhil/PhD

77:39 St Andrews, *Geology,* MSc/PhD

77:40 St Paul & St Mary's C, *Geology,* MPhil/PhD (CNAA)

77:41 Sheffield, *Geology,* MSc/PhD; supervision available, research areas inc: *micropalaeontology:* biostratigraphical work esp study of dinoflagellates in relation to Tertiary zonation, palaeoecology esp specific studies on relationship of palynomorphs to facies (palynofacies) in oilfields of N Sea; *macropalaeontology:* Lower Palaeozoic trilobite and trace fossil studies; *sedimentology:* esp sedimentary geochem, reactions betwn sediments and porewaters of different compositions; *igneous petrology:* layered basic intrusives of Galway and Hebridean province; *upper mantle studies:* periodotite and eclogite inclusions in high-grade metamorphic rocks of basal gneiss region of W Norway being mapped to estab relationship to gneisses, studies on kimberlites; *econ geology:* base metal deposits of UK, Europe and USA, inc hydrogeochem and stream sediment geochem,

K-Ar geochronology, S, O and C isotope studies, *eng geol* site investigations involving eng properties of shales, compaction of coal measures rocks and hydrogeology of chalk **Contact** Professor JB Dawson

77 42 Southampton, *Geology*, MPhil/PhD, supervision available, research interests inc Archaean geol in Australia esp assoc of nickel sulphides and ultramafic rocks, geochem of Archaean basaltic komatiites and tholeiites, marine geophysics and marine geol, palaeomagnetism and magnetic fabrics, biostratigraphy, applications of conodonts, re-evaluation of environments of deposition of Lower Carboniferous rocks of N Pennines esp Yorkshire, mineralogy and paragenesis of clay [illegible]

77:43 [illegible]

77.44 Strathclyde, *Applied geology*, MSc/PhD

77.45 Sunderland Poly, *Applied geology*, MPhil/PhD (CNAA)

77:46 Ulster, *Environmental studies*, MPhil/DPhil

77.47 Wales (Aberystwyth), *Geology*, MSc/PhD, research programmes inc *marine geol* geol of W continental shelf of British Isles, geol mapping, direct rock sampling sedimentation and ecology of live and dead organisms, *palaeontology and stratigraphy* construction of graptolites, Lower Ordovician stratigraphy and palaeontology, evolution of Mesozoic bivalves Silurian stratigraphy of Brecon anticlinal, *geochem* applied geochem, primary dispersion patterns of selected elements in country rocks adjacent to mineral deposits, *tectonic behaviour of soft sediments* rheological properties of sediments and possible structures produced by deformation before lithification Lake District, W Islay, Alps and Pyrenees, lab study using scanning electron microscopy, exptl simulation of possible processes, *Precambrian studies* W Greenland Archaean, inter relationships betwn deformation, metamorphism and magmatism, detailed geochem and isotope studies sedimentation, magmatism, deformation and metallogenesis in Pan African belt, Nigeria, [illegible]

77.48 [illegible]

77.49 [illegible]

77.50 [illegible]

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

77.51 [illegible]

77.52 [illegible]

77.53 [illegible]

77.54 [illegible]

77.55 City of London Poly, *Quaternary studies*, MSc (CNAA)

77.56 Durham, *Engineering geology*, MSc

77 57 Hull, *Micropalaeontology*, MSc

77.58 Leeds, *Engineering geology*, MSc

77 59 Leeds, *Geochemistry*, MSc, 1 2c yrs f t (hons deg in geol and or chem sciences req), *course content* inc equilibrium thermodynamics and kinetics of water rock reactions at high and low temp, environmental geochem and hydrocarbon source bed evolution, isotope systematics and radiometric age dating, geochem exploration, geochem of econ deposits, computer programming, analytical training inc classical wet chem methods and instrumental techniques, eg x ray fluor, x ray diffraction, atomic absorption, electron microprobe, atomic emission spectrography and

mass spectrometry (NERC). Contact Dr WJ Varker

77:60 **Leicester,** *Mineral exploration and mining geology,* MSc/Diploma, 1 yr f-t; *course content:* geochem and geophysical prospecting, mineral exploration, mining economics, mining geol, ore microscopy, photogeol, principles of mineral dressing, elements of mining, structural geol, econ mineralogy, surveying (NERC). Contact Registrar (Higher Degrees)

77:61 **London (Birkbeck),** *Stratigraphy,* MSc

77:62 **London (Imperial),** *Engineering geology,* MSc/DIC

77:63 **London (Imperial),** *Mineral exploration,* MSc/DIC

77:64 **London (Imperial),** *Petroleum geology,* MSc/DIC

77:65 **London (Imperial),** *Structural geology and rock mechanics,* MSc/DIC

77:66 **London (RHBC),** *Basin evolution and dynamics,* MSc

77:67 **London (UC),** *Hydrogeology,* MSc/Diploma

77:68 **London (UC),** *Micropalaeontology,* MSc/Diploma

77:69 **Newcastle,** *Organic petrology and organic geochemistry,* MSc

77:70 **Poly of North London,** *Quaternary studies,* MSc (CNAA)

77:71 **Reading,** *Sedimentology and its applications,* MSc

77:72 **Sheffield,** *Palynology,* MSc

77:73 **Wales (Aberystwyth),** *Micropalaeontology,* MSc/Diploma, 1 yr f-t; *course covers:* zoological micropalaeontology with emphasis on application of foraminifera and ostracods to stratigraphic problems and their value in oil field exploration (NERC). Contact Dr JR Haynes

Certificates and diplomas

77:74 **East Anglia,** *Environmental sciences,* Diploma, 1 yr f-t; conversion course for grads in other disciplines, or to deepen and broaden expertise for grads in environmental discipline; *course content:* choice of course units to meet individual reqs; possible areas of specialisation: air pollution, climatic change, ecology, environmental chem, environmental risks, soil and water management, surface processes and hydrology, water resources and amenity. Contact D Marshall

77:75 **Kingston Poly,** *Analysis of geological data,* Diploma (CNAA)

77:76 **Leicester,** *Geological studies,* Diploma

University of Leeds

MPhil/PhD: Earth sciences

Supervision is available in the following fields

petrology

Research facilities include the following special

mass spectrometers for U–Pb Rb–Sr K–Ar and

testing equipment

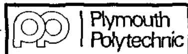
Further information from The Department of Earth Sciences University of Leeds Leeds LS2 9JT

PLYMOUTH POLYTECHNIC

MPhil/PhD (CNAA) Geological Sciences

Current research interests in micropalaeontology, palynology, sedimentology, marine geology, marine geophysics, petrology of recent lavas, structural geology and clay mineral diagenesis

Contact **The Academic Registrar**
Plymouth Polytechnic
Drake Circus
Plymouth PL4 8AA
Tel 0752 221312



78 Physical sciences: geophysics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which the) propose to carry out research. Information about the periods of study required for research degrees i given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgradu ate studies' section.

78:1 **Bath,** *Physics,* MSc/PhD
78:2 **Birmingham,** *Geological sciences,* MSc/PhD
78:3 **Durham,** *Geological science,* MSc/PhD
78:4 **East Anglia,** *Environmental sciences,* MPhil/PhD
78:5 **Edinburgh,** *Geophysics,* MPhil/PhD
78:6 **Exeter,** *Geophysics,* MPhil/PhD
78:7 **Lancaster,** *Solid earth geophysics and geology,* MPhil/PhD
78:8 **Leeds,** *Earth sciences,* MPhil/PhD
78:9 **Liverpool,** *Geophysics,* PhD; supervision available, studies inc palaeomagnetism applied to mag netostratigraphic and tectonic problems, geomagnetism, geochronology using radiometric datin methods (Ar/Ar), earthquake seismology applied to tectonic problems, earthquake source mecha nisms, seismic hazard and risk assessment, math modelling of geodynamic processes with applica tions to thermal and mechanical properties and behaviour of lithosphere and formation o sedimentary basins. **Contact** Professor NJ Kusznir
78:10 **London (Imperial),** *Geophysics,* MPhil/PhD
78:11 **Newcastle,** *Geophysics and planetary physics,* MSc/PhD
78:12 **Reading,** *Geology,* MPhil/PhD
78:13 **Wales (Cardiff),** *Geology,* MSc/PhD
78:14 **York,** *Physics,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research projec (normally lasting three months) with submission of a written report, dissertation or thesis is normall a part of these courses.

78:15 **Birmingham,** *Applied geophysics,* MSc
78:16 **Durham,** *Geophysics,* MSc
78:17 **Leeds,** *Exploration geophysics,* MSc, 1c yr f-t (hons deg in physics, earth sciences, geol or minin req); *syllabus:* gen range of exploration geophysics inc intro to geophysics and its application ir prospecting and earth structure, gravitational, magnetic, electrical and seismic methods, dat processing; plus practical work (NERC). **Contact** Dr WJ Varker
78:18 **London (Imperial),** *Exploration geophysics,* MSc/DIC, 1 yr f-t (hons deg in earth sciences, physica or eng sciences req, other quals considered; approved standard in maths also req); *course conten inc:* time series analysis, filter theory and inverse theory, seismic data acquisition, processing anc interpretation, borehole geophysics, gravity and magnetic exploration methods, electrical and e-m exploration methods, gamma-ray spectrometry, remote sensing, petroleum geol, mineral deposit geol, sedimentary environments; fieldwork and dissertation (NERC). **Contact** Professor MH Worthington
78:19 **London (UC),** *Marine geophysics,* MSc
78:20 **Newcastle,** *Geophysics and planetary physics,* MSc
78:21 **Wales (Bangor),** *Marine geotechnics,* MSc/Diploma
78:22 **Wales (Bangor),** *Water resource geophysics,* MSc/Diploma

Certificates and diplomas

78 23 East Anglia, *Environmental sciences*, Diploma
78 24 Leeds, *Applied geophysics*, Diploma

79 Physical sciences: mathematical physics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which the propose to carry out research. Information about the periods of study required for research degrees i given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgradu ate studies' section.

79:1 **Aston,** *Mathematics and physics,* MPhil/PhD
79:2 **Birmingham,** *Mathematical physics,* MSc/PhD
79:3 **City,** *Mathematics,* MPhil/PhD
79:4 **Edinburgh,** *Mathematical physics,* MPhil/PhD
79:5 **Glasgow,** *Mathematical physics,* MSc/PhD
79:6 **London (Birkbeck),** *Mathematics,* MPhil/PhD
79:7 **London (Imperial),** *Mathematics,* MPhil/PhD
79:8 **Southampton,** *Applied mathematics,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research projec (normally lasting three months) with submission of a written report, dissertation or thesis is normall a part of these courses.

79:9 **Salford,** *Computational physics,* MSc

Certificates and diplomas

79:10 **London (Imperial),** *Mathematical physics,* DIC
79:11 **Wales (Swansea),** *Mathematical physics,* Diploma

80 Physical sciences: meteorology

Higher degrees by research

80 1 **East Anglia,** *Environmental sciences,* MPhil/PhD
80 2 **Edinburgh,** *Meteorology,* MPhil/PhD
80 3 **Lancaster,** *Atmospheric science,* MPhil/PhD
80 4 **London (Imperial),** *Atmospheric physics and dynamics,* MPhil/PhD
80 5 **Manchester (UMIST),** *Pure and applied physics,* MSc/PhD
80 6 **Oxford,** *Atmospheric physics,* MSc/DPhil supervision available main research interests physical processes (eg radiation dynamics photochem) in neutral atms of Earth and planets and in Earth s oceans measurement of atm temp and composition fields by invention development and construction of instruments for various satellites use of data for studies of atm circulation and its relationship to fields of radiation and composition basic theoretical work in geophysical fl dynamics inc gen circulation of oceans and atms interaction betwn planetary waves and mean

processes which maintain climates of Earth Mars and Venus Contact Dr [illegible]
80 7 **Reading,** *Meteorology,* MPhil/PhD
80 8 **Southampton,** *Physics,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

80 9 [illegible]
80 10
80 11
80 12
80 13

Certificates and diplomas

80 14 **East Anglia,** *Environmental sciences* Diploma

81 Physical sciences: oceanography

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

81:1 East Anglia, *Environmental sciences,* MPhil/PhD

81:2 Liverpool, *Oceanography,* MSc/PhD

81:3 Southampton, *Oceanography,* MPhil/PhD; supervision available in following research fields: ocean modelling and dynamics of upper ocean; circulation and mixing or dispersion of tracers in shallow seas and deep ocean; satellite remote sensing (inc visible, i-r and microwave sensors); palaeomagnetism of marine and continental rocks; applications to geophysical evolution of N Atlantic and other ocean basins; magnetostratigraphy; application of magnetic fabric measurement to sediment transport studies of recent and ancient sediments; marine seismology; sedimentary processes at convergent plate margins; occurrence, distribution and speciation of certain chem constituents, analytical procedures for very low concentrations; marine org chem and cycling of org material; benthic ecology; zooplankton ecophysiol; volume and ionic regulation of marine and brackish water organisms; ecological significance of behavioural and physiol rhythmicity in marine invertebrates; microbial planktonic processes and primary production studies; modelling of estuarine processes. Contact Dr EA Hailwood (Admissions Tutor)

81:4 Wales (Bangor), *Oceanography,* MSc/PhD

81:5 Wales (Swansea), *Oceanography,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

81:6 Southampton, *Oceanography,* MSc/Diploma *See page 343*

81:7 Wales (Bangor), *Physical oceanography,* MSc/Diploma

Certificates and diplomas

81:8 East Anglia, *Environmental sciences,* Diploma

81:9 Liverpool, *Marine pollution chemistry,* Diploma

Overseas students

See editorial on page 7 onwards for information on UK postgraduate study

82 Physical sciences: optics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

82:1 **Aston,** *Vision sciences,* MPhil/PhD
82:2 **Bradford,** *Ophthalmic optics and visual science,* MPhil/PhD
82:3 **City,** *Optometry and visual science,* MPhil/PhD
82:4 **London (Imperial),** *Optics,* MPhil/PhD
82:5 **Manchester,** *Physics,* MSc/PhD
82:6 **Manchester (UMIST),** *Ophthalmic optics,* MSc/PhD
82:7 **Manchester (UMIST),** *Pure and applied physics,* MSc/PhD
82:8 **Reading,** *Physics,* MPhil/PhD
82:9 **Southampton,** *Physics,* MPhil/PhD
82:10 **Wales (UWIST),** *Optometry,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

82:11 **Belfast,** *Opto-electronics and optical information processing,* MSc
82:12 **Bradford,** *Ophthalmic optics,* MSc
82:13 **City,** *Visual science,* MSc
82:14 **London (Imperial),** *Applied optics,* MSc/DIC, 1c yr f-t (hons deg in physics, maths or electrical eng subj req); *core courses:* geom optics and aberration theory, coherent and incoherent image formation, elem optical design, thin-film optics, optical testing and interferometry, elem quantum electronics, introductory nonlinear optics, optical components and devices; *options:* coherent light techniques, partial coherence, adv laser physics and optical communications, adv nonlinear optics, detection and noise, physiol optics, adv optical design and aberration theory; electron optics, fibre and integrated optics; computing and lab work (SERC). **Contact** The Registrar
82:15 **London (UC),** *Microwaves and modern optics,* MSc/Diploma
82:16 **Reading,** *Applied and modern optics,* MSc, 1c yr f-t: 2 yrs p-t (hons deg in physics, maths or eng or equiv qual req); *course content:* inc geom and theory of image formation, physical theory of image formation, theoretical optics, math topics, computer programming, optical calculations and design inc automatic lens design, optical production methods inc testing of optical elements and systems, optical instruments and optical techniques (fibre optics, optical thin films), visual optics, light sources and detectors, crystal optics (applications of polarisation), lasers and coherent optical techniques (holography and optical data processing), interferometry and its applications, fibre optical communications, industrial laser application, modulators and scanners, display (nonlinear optics and integrated optics); exam and report on sp topic (SERC). **Contact** Professor T Evans

ASTON UNIVERSITY

VISION SCIENCES

POSTGRADUATE OPPORTUNITIES

Vision Sciences is essentially a multi-disciplinary [illegible] Ophthalmic Opticians [illegible]

[illegible]

Spatial and temporal information processing [illegible] pigmentosa

The mathematical representation of differential sensitivity [illegible] and abnormal eye

[illegible]

Requests for further information on research [illegible] and enquiries about applying should be directed to the Postgraduate Admissions Tutor at Department of Vision Sciences Aston University Aston Triangle Birmingham B4 7ET Telephone 021-359 3611 ext 5159

Consult an institution's official prospectus before applying

Course advertisement

83 Physical sciences: physics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

83:1 **Aberdeen,** *Biomedical physics and bioengineering,* MSc/PhD

83:2 **Aberdeen,** *Natural philosophy,* MSc/PhD; supervision available, research in progress: *atomic and molecular studies by synchrotron radiation:* photo-ionisation cross-sections, photo-electron and photo-ion spectroscopy; *soft x-rays:* spectrometer design and multilayer mirror optics; *aeronomy:* upper atm temps, winds and emissions by rockets, noctilucent clouds and airglow; *solid state:* x-ray scattering from phonons, modelling of lattice dynamics; *radio astronomy:* flux of extra-galactic variables at 9 mm; *rock magnetism:* rotational and gyro remanent magnetisations, permo-carboniferous Scottish dykes; *instrument design and electronics:* design and construction of instruments for science and industry using mechanical optical, electronic and microelectronic techniques; *theoretical physics:* quantum liqs, electron band calculations, atomic assoc. Contact Professor GV Marr

83:3 **Aston,** *Mathematics and physics,* MPhil/PhD

83:4 **Bath,** *Physics,* MSc/PhD

83:5 **Belfast,** *Applied mathematics and theoretical physics,* MSc/PhD

83:6 **Belfast,** *Pure and applied physics,* MSc/PhD

83:7 **Birmingham,** *Physics,* MSc/PhD

83:8 **Bradford,** *Physics,* MPhil/PhD

83:9 **Brighton Poly,** *Applied physics,* MPhil/PhD (CNAA)

83:10 **Bristol,** *Physics,* MSc/PhD

83:11 **Bristol Poly,** *Physics,* MPhil/PhD (CNAA)

83:12 **Brunel,** *Physics,* MPhil/PhD; research interests in following main areas: particle detector development, laser applications, solid state and surface physics, ultrasonics and non-destructive testing; other interests inc: properties of thin films, solid state and device physics, measurement of transport properties of solids, semiconductor device physics inc fundamental studies of semiconductor controlled rectifiers, lattice defects in crystals, dislocations; crystallography, use of Eddy currents to size and locate defects in ferro-magnetic materials and to investigate growth of cracks, design of multi-freq Eddy current rest eqpt, acoustic emission and optical gauging; investigation of surface and sub-surface properties of materials using ultrasonic, ring laser gyroscope, laser mirror scattering; innovative gamma ray detectors, CCDs for radiation detection and gaseous particle detectors. Contact Professor DC Imne

83:13 **Cambridge,** *Applied mathematics and theoretical physics,* MSc/PhD

83:14 **Cambridge,** *Physics,* MSc/PhD

83:15 **City,** *Electrical engineering and applied physics,* MPhil/PhD

83:16 **City of London Poly,** *Physics,* MPhil/PhD (CNAA)

83:17 **Coventry (Lanchester) Poly,** *Applied physical sciences,* MPhil/PhD (CNAA)

83:18 **Coventry (Lanchester) Poly,** *Physical science,* MPhil/PhD (CNAA)

83:19 **Cranfield,** *Ecological physics,* MPhil/PhD

83:20 **Dundee,** *Physics,* MSc/PhD

83:21 **Durham,** *Applied physics and electronics,* MSc/PhD; supervision available, research interests in solid state physics, electronic materials and devices, microelectronics, digital and high freq electronics; specific projects; Langmuir-Blodgett films and devices, silicon integrated circuit design and devices, photoelectronic properties of II-VI cpds, theory of semiconductor materials and devices, high freq measurements and applications, digital electronics for signal processing and data communications. Contact Dr JS Thorp

83 22 [illegible]

detectors for use in astronomy and gamma ray astronomy, *astronomy instrumentation* faint object [illegible]

83 23 **East Anglia**, *Physics*, MPhil/PhD
83 24 **Edinburgh**, *Medical physics and medical engineering*, MPhil/PhD
83 25 **Edinburgh**, *Physics*, MPhil/PhD
83 26 **Essex**, *Physics*, MSc/MPhil/PhD, supervision available in current research areas exptl study of various phenomena in semiconductors and amorphous materials, low-dimensional structures [illegible]

cryogenic eqpt, magnets inc 6-ton electromagnet and various superconducting solenoids crystal growth and preparation facilities, conventional and scanning electron microscopes spectrometers for use from vacuum uV to millimetre wavelengths, clean room, large workshop Contact Dr DR Tilley
83.27 **Exeter**, *Physics*, MPhil/PhD
83 28 **Glasgow**, *Physics*, MSc/PhD
83.29 **Hatfield Poly**, *Physics*, MPhil/PhD (CNAA)
83.30 **Heriot-Watt**, *Physics*, MSc/PhD
83 31 **Huddersfield Poly**, *Chemical and physical sciences*, MPhil/PhD (CNAA)
83 32 [illegible]

code development, ionisation physics, laser plasma interaction, computer modelling and applica- [illegible]

83·33 [illegible]
83·34 [illegible]
83 35 [illegible]

83·36 [illegible]
83 37 [illegible]
83 38 **Lancaster**, *Physics*, MPhil/PhD
83 39 **Leeds**, *Medical physics*, MSc/MPhil/PhD
83 40 **Leeds**, *Physics*, MPhil/PhD, current research interests astrophysics and nuclear [illegible] cosmic ray extensive air showers, ultra high-energy interactions, g[illegible] omy and optical astronomy, *solid state physics* mainly electronic [illegible]

properties, specific heat, thermal and electrical conductivity in both crystalline and amorphous metals and alloys, de Haas-van Alphen oscillations, Mossbauer effects; *theoretical physics:* transport theory, magnetism, polymers, liqs, gen solid state physics, math methods, field theory and phase transitions; *polymer physics:* mechanical properties, anisotropic, elastic and visco-elastic, yield and fracture, also nmr, gel permeation chromatography, i-r, laser-Raman and polarised fluor spectroscopy, piezo-electricity. **Contact** Professor AA Watson

83:41 Leeds, ***Radiation,*** MPhil/PhD

83:42 Leicester, ***Physics,*** MSc/MPhil/PhD

83:43 Leicester Poly, ***Physics,*** MPhil/PhD (CNAA)

83:44 Liverpool, ***Chemical physics,*** MSc/PhD

83:45 Liverpool, ***Physics,*** MSc/PhD; supervision available; research interests in following areas: *exptl* p-g students work in elem particle physics (at CERN in Geneva), nuclear structure physic (structure of nuclei and spectroscopy at Nuclear Structure Facility, Daresbury), solid state an surface physics (photoelectron and auger electron spectroscopy in Department and at Synchratro Radiation Source, Daresbury), inverse photoemission and low energy electron diffractio (LEED), Mossbauer effect studies on metals, magnetic materials and biol molecules), *theoretical* high-energy particle physics, theories of condensed matter, quantum field theory. **Contac** Professor CE Johnson

83:46 Liverpool Poly, ***Physics,*** MPhil/PhD (CNAA)

83:47 London (Birkbeck), ***Physics,*** MPhil/PhD

83:48 London (Imperial), ***Physics,*** MPhil/PhD; supervision available; research in wide range of topics b wide variety of exptl and theoretical techniques, some specific topics named: *astrophysics:* optical i-r, x-ray observations using ground-based telescopes and spacecraft; *atm physics and dynamics* numerical modelling of atm motions and oceanography; *biophysics:* enzyme structure; protei eng; muscle; microtubules; biol membranes; anaesthesia; vision; *high energy physics:* electro positron and electron proton expts at CERN and DESY; *optics:* laser development, nonlinea optics, ultrafast phenomena, quantum optics theory, lens design, holographic elements, optica information processing, image processing, see also Physical sciences: optics; *plasma:* expts an theory on laser-plasma interactions, x-ray lasers, dense Z-pinches and JET; *theoretical solid stat physics:* theory of surfaces, disordered systems inc localisation, quantum Hall effect and spi glasses; *exptl solid state physics:* semiconductors, disordered systems, magnetic sensing of nerv impulses in the brain; *space physics:* space plasmas and planetary research, eg Jupiter and Uranus; *spectroscopy:* laser synchrotron Fourier transform, plasma and x-ray spectroscopy; *theoretica physics:* theories of elem particles, quantum gravity and their interactions. **Contact** Registrar

83:49 London (KQC), ***Physics,*** MPhil/PhD

83:50 London (Queen Mary), ***Physics,*** MPhil/PhD; supervision available, main fields of research interests: *theoretical physics:* elem particle physics, field theory inc gen relativity, condensed matter physics, stat mechanics; *polymer physics and molecular electronics:* synthesis, characterisation, fundamental physical properties and applications of new org solids, emphasis on diacetylene monomers and polymers in single-crystal form, electro-optic and nonlinear optic org materials; *exptl high-energy and nuclear physics:* collaborative expts in particle physics using accelerators at CERN (Geneva), eg UA1 expt using proton-antiproton collider, studies of low-energy nucleon-antinucleon interactions at LEAR, OPAL expt at LEP; also study of neutrino interactions at ISIS accelerator in UK; *astrophysics:* extra-galactic astronomy, galactic astronomy, planetary astronomy, IRAS follow-up, instrumentation inc instruments for satellite observations; *eng physics:* application of physics to development of measurement techniques for technically-demanding and scientifically-important applications. **Contact** Dr JA Edgington

83:51 London (RHBC), ***Physics,*** MPhil/PhD

83:52 London (UC), ***Physics,*** MPhil/PhD

83:53 Loughborough, ***Physics,*** MPhil/PhD; supervision available, current research topics inc: *magnetism and solid state physics:* magnetic structure and properties of magnetic alloys, study of magnetic toners for photocopiers, time dependent magnetisation in recording tapes, vac deposited magnetic thin films, solid state physics using precision low temp thermal expansion; *mechanical properties of matter:* musical acoustics, impact properties of metals and composites, mechanical vibration, behaviour of polymers under high strain rate loading, spontaneous and triggered vapour explosions; *optics:* laser damage in solids, laser interactions with liqs, high speed optical diagnostics, ultra-sensitive remote optical sensing, thermal performance of windows, vac deposition of thin films in polymers, reactive planar magnetron sputtering; *surface physics:* applications of surface analysis techniques, laser-induced mass analysis, surface physics of dry processing of III-V semiconductors, ion-induced mixing in SIMS profiling, XPS studies of oxidation of stainless steel.

Contact Head of Department

83 54 Manchester, *Physics*, MSc/PhD

83 55 [illegible]

instruments, inc refractometers and optical transducers remote sensing of planetary surface [illegible]

83 56 [illegible]

83 57 [illegible]

83 58 [illegible]

83 59 [illegible]

83 60 [illegible]

83 61 [illegible]

83 62 [illegible]

tions Contact Dr DO Hughes

83 63 Nottingham, *Physics*, MPhil/PhD, supervision available for research on nuclear magnetic resonance, medical imaging, molecular tunnelling at low temps, neutron scattering, electron and acoustic magnetic resonance, ferromagnetic and spin wave resonance, deep levels in semiconductors, semiconductor physics, semiconductor devices and 2D structures, optical and far i r spectroscopy, phonon spectroscopy at low temps, thermal conduction in solids, tunnel junction spectroscopy, liq He cosmic ray air showers, muon momentum spectra, Jahn-Teller effects theory [illegible]

83 64 [illegible]

83 65 [illegible]

83 66 Oxford, *Nuclear physics*, MSc/DPhil

83 67 Oxford, *Physics*, MSc/DPhil *See page 354*

83 68 Oxford, *Theoretical physics*, MSc/DPhil, supervision available, main fields of research elem particle physics and quantum field theory, nuclear theory, solid state and low temp physics, theoretical astrophysics Contact Professor RJ Elliott

83 69 [illegible]

83 70 [illegible]

83.71 [illegible]

83.72 Portsmouth Poly, *Physics*, MPhil/PhD (CNAA)

83 73 Reading, *Physics*, MPhil/PhD, supervision available, research interests inc *solid state physics* crystalline semiconductors and insulators metallic alloys, polymers, liqs, glasses and other [illegible]

phenomena in liqs, liq crystals and macromolecules, *polymer physics* structure property relationships for crystalline and other polymer systems, *theoretical physics* electronic transport theory, optical absorption and electron phonon interactions in semiconductors and insulators, [illegible]netic

Ph

phase transitions (Ising spin glasses), frustration problems, interionic potentials in ionic crystals and their application to defect systems, hopping of defects, impurities in semiconductors, computational physics. Contact Professor T Evans

83:74 **St Andrews,** *Physics,* MSc/PhD

83:75 **St Andrews,** *Theoretical physics,* MSc/PhD

83:76 **Salford,** *Pure and applied physics,* MSc/PhD

83:77 **Sheffield,** *Physics,* MSc/PhD

83:78 **Sheffield City Poly,** *Applied physics,* MPhil/PhD (CNAA)

83:79 **Southampton,** *Cryogenics,* MPhil/PhD; supervision available for research in Inst of Cryogenics; recent projects inc: electrical strength and losses in commercial dielectric materials; development and use of trans-sonic cryogenic wind tunnels; mechanical, electrical, thermal and thermodynamic problems of rotating superconducting electrical machines using liq He and other refrigerants in rotating frame; vapour/solid heat transfer and flow in cryogenic liq and vapour columns via laser doppler anemometry; thermodynamic properties of LNG, LPG and hydrocarbon mixtures; 2-phase condensing heat transfer coefficients in heat exchangers for LNG; heat transfer mechanisms in living tissues for application to cryo-surgery; boiling heat transfer at low temp differences; reduction of surface heat fluxes into cryogenic liqs during storage; improvement of multi-layer and foam insulations; surface effects, surface heating and evaporation instabilities in multi-component liqs; heat transfer to He at zero g on Spacelab and Ariane flights; low-temp properties and stabilities of materials inc concrete; cryogenic ballasting of high altitude balloons; high gradient magnetic separation using superconducting magnets. Contact Professor RG Scurlock

83:80 **Southampton,** *Physics,* MPhil/PhD; supervision available; research interests inc: *Laser physics spectroscopy and nonlinear optics:* lasers and nonlinear optical phenomena, and their exploitation in spectroscopy and development of new devices; *computational physics:* applications of parallel processing with transputer arrays; *exptl elem particle physics:* properties of new psi particles at CERN 300 GeV SPS accelerator; *theoretical particle physics:* application of 'gauge theories' and study of symmetries and their breaking; *x-ray and gamma ray astronomy:* studies of high energy astrophysical sources inc use of imaging telescopes; *upper-atm physics:* EISCAT radar low light level cameras; *magnetism:* fundamental magnetic properties of rare-earth and transition metal alloys, amorphous materials, neutron-scattering; *solid state theory:* many body theory and theory of disorder systems; *biophysics:* structure and function of biol membranes; *surface physics:* physical and chem structure of solid surfaces; *atomic collision physics:* electron energy-loss spectroscopy of metal vapours. Contact CA Ryde

83:81 **South Bank Poly,** *Physics,* MSc/MPhil/PhD (CNAA)

83:82 **Stirling,** *Physics,* MSc/PhD

83:83 **Strathclyde,** *Applied physics,* MSc/PhD *See page 354*

83:84 **Strathclyde,** *Physics,* MSc/PhD *See page 354*

83:85 **Sunderland Poly,** *Physical sciences,* MPhil/PhD (CNAA)

83:86 **Surrey,** *Physics,* MPhil/PhD *See page 355*

83:87 **Sussex,** *Physics,* MPhil/PhD; supervision available; wide range of research interests in following broad fields: *theoretical:* particle physics and cosmology, nuclear physics, physics of condensed matter; *exptl:* low-temp studies of solids and helium, interactions of ion beams with solids and gases, epitaxial growth in semiconductors, atomic physics, space and lab plasma physics, nuclear spectroscopy, neutron physics. Contact Dr MG Richards

83:88 **Thames Poly,** *Materials science and physics,* MPhil/PhD (CNAA)

83:89 **Trent Poly,** *Physical sciences,* MPhil/PhD (CNAA)

83:90 **Ulster,** *Physics,* MPhil/DPhil

83:91 **Wales (Aberystwyth),** *Physics,* MSc/PhD

83:92 **Wales (Bangor),** *Physics,* MSc/PhD

83:93 **Wales (Cardiff),** *Physics,* MSc/PhD; supervision available for research; exptl research programme: inc physical properties of solids esp molecular motions and phase transitions studied by x-ray and neutron diffraction, laser-Raman spectroscopy, ultrasonics, optical birefringence etc; optical diffraction (eg interpretation of diffraction patterns of fibres and other disordered structures through laser diffractometer techniques); electrical and dielectric properties of materials; studies of semiconductor surfaces and interfaces with metals; growth of novel materials and electronic device structures by molecular beam epitaxy; physics of musical instruments; electronic sound; thermal insulation, development of novel materials using metallised surfaces; *theoretical programme:* links broadly with above research currently inc rotational lattice dynamics; calcula-

tions of electronic structure of defects in metals and semiconductors and of surface and in states in semiconductors Contact Professor RH Williams

83 94 **Wales (Swansea),** *Physics,* MSc/PhD

83 95 **Warwick,** *Physics,* MSc/MPhil/PhD

83 96 **Wolverhampton Poly,** *Materials and physics* MPhil PhD (CNAA)

83 97 **Worcester CHE,** *Physical sciences,* MPhil PhD (CNAA)

83 98 **York,** *Physics,* MPhil/DPhil, supervision available research in following major area solid physics, theoretical physics laser physics geophysics specific staff interests inc crystal struc determination by direct methods origin of planetary systems planetary science star f rmat low energy electron diffraction Auger electron spectroscopy scanning Auger electron mi scopy, surface structure analysis optical properties of thin films applications laser surf studies of glass, Auger effect surface physics electronic properties of solids and surfaces surf physics low energy electron diffraction laser interferometry detection f e m waves us magneto and electro optic transducers studies of laser amplitude and phase n ise m gnet sphe physics, geomagnetic pulsations earth conductivities from e m induction studies growth f th metallic films corrosion and conservation of glass x ray fluorescence spectroscopy of gla ar silicate systems archaeometry charge transport in molecular solids laser studies f ultra la processes, high resolution Doppler free laser spectroscopy holographic optical elements dichr mated gelatine as recording material for light Contact Professor MM Woolfson

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

83 99 **Aberdeen,** *Medical physics,* MSc Diploma

83 100 **Aberdeen,** *Natural philosophy* MSc 1c yr f t (hons deg in physics or maths req) intensive study of particular branch of theoretical or exptl physics may be combined with training in original investigation, *course content* choice of topics from following areas quantum stat mechanics math techniques of physics theory of quantum liqs solid state physics radio astronomy aeronomy geophysics molecular physics vac uV soft x ray instrumentation Contact Professor GV Marr

83 101 **Belfast,** *Atomic and molecular processes* MSc

83 102 **Birmingham,** *Applied radiation physics* MSc

83 103 **Birmingham,** *Physics and technology of nuclear reactors* MSc

83 104 **Brunel,** *Semiconductor physics and technology* MSc Diploma 1 yr f t (hons deg in physics or electrical eng req) involves adv study in field for research work on semiconductors or for technological work in solid state electronics industry *syllabus* structure and classification of solids preparation of materials energy bands in solids generation and motion of free charge carriers magnetic properties applications of semiconductors technological applications particular semiconducting materials dissertation Contact Professor DC Imrie

83 105 **Cambridge,** *Physics,* MPhil

83 106 **Dundee,** *Physics and technology of amorphous solids,* MSc 1 yr f t (hons deg in physics electrical eng or materials science req) offered jointly with Edinburgh and Glasgow fundamental and latest applied developments in amorphous semiconductor field *course structure* Oct March course work at Dundee April Sept research project at 1 of participating univs *topics* structure preparation and characterisation of amorphous solids electronic optical magnetic and thermal properties of doped and undoped amorphous semiconductors amorphous silicon junction devices solar cells thin film transistors logic and memory devices glasses and vitreous state (SLRC) Contact Professor WE Spear Department of Physics

East Anglia, *Chemical physics,* MSc

Edinburgh, *Physics and technology of amorphous solids* MSc

Glasgow, *Physics and technology of amorphous solids,* MSc

Heriot Watt, *Opto-electronic and laser devices* MSc

Heriot Watt, *Mathematics applied to physical sciences* MSc

Lancaster, *Applied cryophysics,* MSc

Lancaster, *Physics and education,* MA

Leeds, *Medical physics,* MSc

87:230 **La Sainte Union CHE (Southampton),** *Computing for teachers*, Certificate (Portsmouth Poly)
87:231 **Leeds,** *Computers in education*, Diploma
87:232 **Leicester Poly,** *Computing*, Diploma
87:233 **London (Birkbeck),** *Computer science*, Diploma
87:234 **London (Goldsmiths'),** *Microcomputers in education*, Diploma
87:235 **London (Inst Ed),** *Microcomputers in education*, Diploma
87:236 **Mid-Kent CH & FE,** *Computer education*, Certificate/Advanced Certificate
87:237 **Napier C (Edinburgh),** *Information technology (computer aided engineering)*, Diploma
87:238 **Napier C (Edinburgh),** *Systems analysis and design*, Diploma, 1 yr f-t (deg req, or approved qual plus relevant experience), preparation for career in commercial or admin data processing and subsequently in senior post in computer management, *synopsis* compiler hardware and software, operating systems, information systems analysis, design business systems (management, accounting, OR), system design project, programming project Contact Information Office, Napier College, Freepost, Edinburgh EH14 0PA
87:239 **New C (Durham),** *Computing in the curriculum*, Diploma (Durham)
87:240 **Newcastle Poly,** *Business information technology*, Diploma (CNAA)
87:241 **N Cheshire C,** *Computer education*, Diploma
87:242 **Nottingham,** *Mathematics*, Diploma
87:243 **Paisley CT,** *Information technology*, Diploma
87:244 **Poly of Central London,** *Computing*, Certificate
87:245 **Poly of Central London,** *Electronics and computer technology*, Diploma
87:246 **Poly of North London,** *Computing*, Diploma
87:247 **Poly of Wales,** *Computer science*, Diploma
87:248 **Portsmouth Poly,** *Information systems*, Diploma (CNAA)
87:249 **Robert Gordon's IT (Aberdeen),** *Computer technology*, Diploma (CNAA)
87:250 **Robert Gordon's IT (Aberdeen),** *Information systems technology*, Diploma (CNAA)
87:251 **Southampton IHE,** *Operational research and computer techniques*, Diploma
87:252 **Stirling,** *Computer education*, Diploma
87:253 **Stirling,** *Computer science*, Diploma
87:254 **Strathclyde,** *Business information technology systems*, Diploma
87:255 **Ulster,** *Microelectronics and microcomputer applications*, Diploma
87:256 **Wales (Aberystwyth),** *Computer science*, Diploma *See page 377*
87:257 **West Glamorgan IHE (Swansea),** *Professional studies in education (computer science)*, Diploma (CNAA)

University College of Wales, Aberystwyth

Postgraduate Computer Science

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Department of Computer Science
University College of Wales
Aberystwyth
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Telephone 01 253 4399 ext 3825

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University of Lancaster, Engineering Building
Bailrigg, Lancaster LA1 4YR

Loughborough University of Technology



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Department of Computer Studies
Loughborough University of Technology
Loughborough, Leicestershire LE11 3TU

Course advertisements

Eng

Addresses of institutions

are on pages 479–508

University of Newcastle upon Tyne



POSTGRADUATE COMPUTING SCIENCE

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MSc or PhD by Research in Computing Science
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SERC studentships for each of the above are available to well qualified applicants For further information write to

Postgraduate Admission Tutor, Dept SG
Computing Laboratory,
The University,
Newcastle upon Tyne
NE1 7RU

88 Engineering: general

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which t[hey] propose to carry out research Information about the periods of study required for research degree[s is] given in the Entrance requirements and periods of study paragraphs in the introductory Postgrad[u]ate studies section

88 1 Aberdeen, *Engineering* MSc/PhD research supervision available in aspects of structural analys[is] and design structural dynamics impact mechanics energy absorption fracture mechanics mechanics of compressible and incompressible fls 2 phase flow problems heat and mass transfer non linear vibration earthquake response machine dynamics geotechnical eng inc soil dynamics dynamics of gearing and mechanical power transmission shaft whirl and vibration control theory electrical machines and systems inc control of machines machine condition monitoring turbo-generator torsional oscillations real time simulation optoelectronics laser holography semicon ductor theory metal forming manufacturing processes lubrication computer simulation linguis tics and graphics knowledge representation using massively parallel processors adv architecture local area networks methodologies for design of digital systems high level applications support for digital systems control protocols for packet radio and satellite communication systems **Contact** Dr AA Rodger

88 2 Bath, *Engineering* MSc/PhD supervision available current research interests helicopter rotor aerodynamics slotted flaps dynamic behaviour of deep towed body cable systems unsteady aerodynamics of control surfaces dynamics of prime mover load systems design of mechanisms vibrations stretcher suspensions control characteristics of split power transmission systems CAD of hydraulic systems contamination of h p hydraulic systems fatigue life of structures thin walled structures dynamic loading of vehicles adv turbochargers combustion in high swirl chambers for DI diesel engines thermal barrier pistons flow in variable geom radial turbines Stirling engines heat transfer, gas exchange processes of highly turbocharged diesel engines flexible manufactur ing systems computers applied to forging flexible fixtures polishing robot geom modelling of blended surfaces non-contact co-ordinate measuring machine automation of aspects of pattern making **Contact** J Scowley

8 3 Belfast, *Engineering mathematics*, MSc/PhD

8 4 Bristol, *Engineering mathematics* MSc/PhD *See page 384*

3 5 Bristol Poly, *Engineering* MPhil/PhD (CNAA)

6 Brunel, *Engineering* MPhil/PhD current research interests power electronics and systems communication systems control systems intelligent automata CAD psychol modelling pattern recognition and industrial robotics associative processing and VLSI architecture audiology biomedical eng lubrication marine eng solar energy stress analysis and material behaviour fl mechanics vibrations control fl power eng production processes deep hole drilling profile boring N/C machining building services building psychol building materials construction management open-channel flow, building ventilation computer modelling foundations and geotechnics road safety studies metal alloys research thermoplastics development wear of polymers and composites joining and durability of materials new welding processes **Contact** Faculty Officer

Cambridge, *Engineering* MSc/PhD

Central SA & D (London), *Industrial design engineering*, MPhil/PhD (CNAA)

Coventry (Lanchester) Poly, *Combined engineering* MPhil/PhD (CNAA)

Cranfield, *Fluid engineering*, MSc/PhD *See page 384*

Dorset IHE (Poole), *Engineering*, MPhil/PhD (CNAA)

urham, *Engineering science*, MSc/PhD

eter, *Engineering science*, MPhil/PhD research undertaken in most fields [illegible] electronics d computing in medicine digital signal and image processing [illegible] vel computer architecture computer control of electrical and mechanical [illegible] image ign of pipe networks estuary modelling structural [illegible]

[illegible]

methods; optical methods for structural inspection; geotechnical eng; design and development of replacement hip-joints; use of hardness, friction, wear and crack growth measurements to evaluate fundamental and technological properties of new commercial ceramic and metallic alloys; electrical charge transport in org materials; thermodynamics and gas dynamics of lean-burn automotive engines; acoustic and aerodynamic characteristics of waste-gas flares; flow over compliant surfaces. Contact Dr PW Carpenter

88:14 Hatfield Poly, *Engineering*, MPhil/PhD (CNAA)
88:15 Hull, *Engineering design and manufacture*, MSc/PhD
88:16 Lancaster, *Engineering*, MPhil/PhD
88:17 Leicester, *General engineering*, MPhil/PhD
88:18 Loughborough, *Engineering mathematics*, MSc/MTech/PhD
88:19 Manchester Poly, *Mechanical, production and chemical engineering*, MPhil/PhD (CNAA)
88:20 Napier C (Edinburgh), *Technology*, MPhil/PhD (CNAA)
88:21 Newcastle, *Engineering mathematics*, MSc/PhD
88:22 Nottingham, *Theoretical mechanics*, MPhil/PhD
88:23 Open, *Energy studies*, BPhil/MPhil/PhD
88:24 Open, *Engineering science*, BPhil/MPhil/PhD
88:25 Oxford, *Engineering science*, MSc/DPhil; facilities available for wide range of research; main research areas, fl mechanics, heat transfer and thermodynamics, cryogenic eng (production of refrigeration, heat transfer and fl flow, cryopump design, new cements, superconducting materials), medical eng (blood handling devices, orthopaedics), solid mechanics (structures, mechanics of fatigue, flaws and fracture, mechanical behaviour of metals, polymers and reinforced plastics at impact rates of loading, mechanical behaviour of polymeric solids), soil mechanics (soft soils, gassy soils, reinforced soil, pipe-jacking, in-situ testing, geophysics), plasma physics and ionisation phenomena, physical electronics (scanning optical microscope and fibre optics, volume holography, acousto-electronics and signal processing, microfocused ion beams, exploration seismology), control and system dynamics (theory, applications and implementation), robotics (image processing, image understanding, mobile robots), see separate entries in approp chs for details. Contact Professor CP Wroth
88:26 Oxford Poly, *Engineering*, MPhil/PhD (CNAA)
88:27 Poly of Central London, *Engineering*, MPhil/PhD (CNAA)
88:28 Reading, *Engineering*, MPhil/PhD
88:29 Royal CA, *Automotive design*, MA/PhD
88:30 Southampton, *Sound and vibration studies*, MPhil/PhD
88:31 Wales (Swansea), *Energy studies*, MSc/PhD
88:32 Warwick, *Engineering science*, MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

88:33 Aston, *Computer aided design*, MSc
88:34 Belfast, *Engineering computation*, MSc/Diploma
88:35 Birmingham Poly, *Industrial design*, MA/Diploma (CNAA)
88:36 Central SA & D (London), *Industrial design engineering*, MA (CNAA)
88:37 Cranfield, *CAD and CAM of production machines and systems*, MSc, 1 yr f-t; *syllabus:* computer aided analysis, software eng, product modelling, manufacturing systems eng, microprocessors in machine systems, simulation techniques, robotic control and applications, database design, artificial intelligence, CAD/CAM communications, management of product innovation, individual/industrial CAD/CAM project (SERC, TOPS, EITB approved). Contact John Corbett
88:38 Cranfield, *Design of flow systems*, MSc
88:39 Cranfield, *Engineering construction project management*, MSc
88:40 Cranfield, *Fluid engineering*, MEng
88:41 Cranfield, *Industrial robotics*, MSc
88:42 Cranfield, *Metrology and quality assurance*, MSc
88:43 Cranfield, *Software techniques in computer aided engineering*, MSc

88 44 Durham, *Engineering*, MEng 13 mths f t, course in adv eng and management studies in col laboration with sponsoring industrial organisation, project periods in industry adv study in [illegible]

analysis finite element methods digital systems LSI circuits and systems ic design techniques electronic materials technology electronic processes in device semiconductors microprocessor systems LSI in communications dynamics and stress analysis radial and mixed flow turbomachin ery mechanical eng design instrumentation *also management studies programme* management accounting finance marketing business and econ environment quantitative methods produc tion management industrial relations labour law individual and organisational behaviour (EITB microelectronics and turbomachinery options SERC) Contact Dr RK Taylor

88 45 East Anglia, *Theoretical mechanics*, MSc

88 46 Glasgow, *Engineering management*, MSc

88 47 Heriot Watt, *Computer aided engineering* MEng

88 48 Lancaster, *Project engineering* MSc

88 49 Leicester Poly, *Industrial design (engineering)* MA (CNAA)

88 50 [illegible]

88 51 [illegible]

design improve knowledge and competence in manufacturing technology and materials science

88 52 London (Imperial), *Industrial robotics and manufacturing automation* MSc/DIC

88 53 Loughborough, *Engineering design* MTech/ALUT 1c yr f t 2c yrs p-t (deg in mechanical electrical or production eng or equiv qual req) comprehensive and professional approach to design of products processes and systems prepares engineers for positions of responsibility in industry [illegible]

88 54 [illegible]

88 55 Newcastle, *Engineering mathematics*, MSc

88 56 [illegible]

88 57

88 58

88 59

88 60 Royal CA, *Industrial design* MA

88 61 Royal CA, *Industrial design engineering*, MDes/Diploma

88 62 Southampton, *Sound and vibration studies* MSc/Diploma

88 63 [illegible]

88 64 [illegible]

88 65 Teesside Poly, *Computer aided engineering* MSc/Diploma (CNAA)

Certificates and diplomas

88:66 **Bristol Poly,** *Engineering,* Diploma
88:67 **Coventry (Lanchester) Poly,** *Computer aided engineering,* Diploma (CNAA)
88:68 **East Anglia,** *Theoretical mechanics,* Diploma
88:69 **Paisley CT,** *Engineering design of buildings,* Diploma

Heriot-Watt University
Faculty of Engineering



POSTGRADUATE COURSES AND RESEARCH 1987/8

The Faculty offers a w de range of postgraduate courses and opportun t es for research A *Guide to Postgraduate Study and Research* g v ng deta ls of these is ava lable from the Deputy Reg strar Her ot Watt Un vers ty Chambers Street Ed nburgh EH1 1HX

Masters courses currently available

Course		
Acoustics Vibration and Noise Control	P/T	*
Building Services Eng neering	PT F/T	*
Construction Management (Building)	P/T F/T	*
Design and Manufacture	P/T	*
Hydraulic Engineering	P/T	
Soil Mechanics	P/T	
Structural Engineering	P/T	
Highway Engineering	P/T	
Digital Techniques	P/T F/T	*
Electrical Power Eng neering	P/T F/T	*
Information Technology (Conversion Course)	F/T	*
Petroleum Engineering	F/T	*
Modular Course (combined faculty course)	P/T F/T	*

* *Postgraduate diploma course also available F/T Full time P/T Part time*

Research activities

The departments, together with the r research activit es for which supervision is ava lable for research are l sted below

Building Bu ld ng technology heat ng vent lation and thermal nsulation construction management bu ld ng economics wind effects on bu ld ngs acoustics and sound transfer bu ld ng ma ntenance bu ld ng services eng neering

Chemical and Process Engineering Offshore process ng high temperature process ng powder production marine technology dynamic wett ng and a r entra nment enhanced o l recovery cont nuous process ng process control eff uent and pollution control operation gra n dry ng

Civil Engineering Materials mathematical/ physical modell ng of structures and soils full sca e test ng member/soil characteristics dynamics of compliant floating systems in short crested seas estuarine dynamics pavement eng neering engineering education

Electrical and Electronic Engineering Advanced robotics multi-sensor perception systems real t me intelligent control systems image analys s autonomous submers bles and sub-sea robotics dig tal communications computer architectures microwave eng neering e ectrical power systems power electronics

Mechanical Engineering Two-phase flow flow n porous media rotor dynamics dynamic response to marine risers attached to float ng vessels vapour power cycles boil ng heat transfer heat pumps natural circulation of ducts computer-aided engineering

Offshore Engineering S ngle point mooring dynamics of compliant structures moorings separated flow round bluff bod es wind-wave interaction laser-doppler techniques wave and current load ng on cylinders environmental matters

Petroleum Engineering Reservoir rock characterisation reservoir and well damage stud es enhanced oil-recovery multi-phase flow of hydrocarbon systems techno-economic study of offshore production systems electrical properties of rocks design of completion systems for deviated we ls

Course advertisement *Engineering and*

Brunel

THE UNIVERSITY OF WEST LONDON

Postgraduate Opportunities in the Faculty of Technology

The Faculty of Technology offers the following specialist MSc courses

- Advanced Manufacturing Systems
- Building Services Engineering
- Construction Management
- Digital Systems
- Intelligent Systems
- Microelectronics Systems Design
- Project Management (jointly with Henley, the Management College)
- Welding and Adhesive Bonding of Engineering Materials

Excellent facilities and structured programmes for research training in over forty Specialist Groups some of them multi disciplinary are available

Further information may be obtained from Faculty of Technology Brunel University Uxbridge, Middlesex UB8 3PH (quote Ref SG 87)

UNIVERSITY OF CAMBRIDGE

Department of Engineering

The Department is a general one teaching and researching in most areas of engineering

Current fields of RESEARCH are

High and low speed aerodynamics turbomachinery (experimental numerical and analytical) fluid mechanics inc 2-phase flows sediment transport and wave loading fission and fusion reactor technology heat transfer combustion and ic engines Stirling cycle engines MHD inc applications in metallurgy generation and control of sound, relation of sound to turbulence and combustion, high-power lasers electron optical instruments and electron beam machines, electron emission and surface physics, microwave electronics inc solid state and thin film devices superconducting devices at power freqs signal processing systems digital transmission systems small electrical machines control systems, control and design of industrial processes microprocessor applications tribology metal forming impact eng machine tools mechanisms vibrations and dynamics, solid mechanics thermal stresses, textile processing mechanics satellite dynamics and surveying CAD and CAM robotics bioeng soil mechanics inc centrifugal testing offshore foundations, buried pipes and tunnels steel concrete and composite structures, shells and plates welding residual stress stability of structures materials science metallic and non-metallic materials

One year courses leading to the Phil are offered in

Computer Speech and Language Processing
Soil Mechanics

Further details about the Department and application forms may be obtained from the Secretary of the Faculty Board University Department of Engineering Cambridge CB2 1P

Index by subject headings on page 509

ENGINEERING FACULTY

University College London

The Faculty of Engineering offers opportunities for MPhil/PhD research degrees and one year taught-course *MSc and College Diplomas in the following departments*

Chemical and Biochemical Engineering
MSc and Diploma courses in *Biochemical*

Photogrammetry and Surveying
MSc and Diploma courses in *Photogrammetry* in *Surveying* and *in Numerical Methods in* Photogrammetry and *Surveying Research opportunities in Ground* and *Air Survey Methods and* Instrumentation Close Range *Photogrammetry Industrial Surveying and Metrology*

Mechanical Engineering and Naval Architecture
MSc and Diploma courses in Marine *Engineering* Ocean Engineering Naval *Architecture and* Non-destructive Evaluation Research opportunities *in Automatic Control* Bioengineering *Fluid* Mechanics Thermodynamics *Materials Naval* Architecture *Offshore* Structures and Impact

Civil Engineering
Intercollegiate MSc

Electronic and Electrical Engineering
MSc and Diploma

Cryogenics

SOUTHAMPTON UNIVERSITY

Degree MSc/PhD

Length of course 1 year full time (MSc), 3 years full-time (PhD), *part time* by arrangement.

Description of course The Institute of Cryogenics at Southampton covers all training and research fields in the application of low temperatures below about 250 K. Subjects covered include

Entrance requirements Good degree in engineering or appropriate science subject
Grant SERC and other institutions
Head of Department *Professor R G Scurlock*
Application and enquiries *The Academic Registrar The University of Southampton SO9 5NH Telephone 0703 559122*

89 Engineering: aeronautical, aeronautics and space technology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section

89:1 **Belfast,** *Aeronautical engineering*, MSc/PhD

89:2 **Bristol,** *Aeronautical engineering*, MSc/PhD

89:3 **City,** *Aeronautics*, MPhil/PhD; supervision available, research interests inc: *aerodynamics:* effects on stability and performance of vehicles, flow fields generated in working sections of high speed wind tunnels having ventilated wall liners, vortical flows and their measurement, dynamic response of tall buildings under various turbulent flows, spectra and correlation of surface pressures over models of buildings; *aircraft structures:* theoretical analysis of joints in orthotropic material with application to C-fibre reinforced plastics, static and fatigue strength of joints in C-fibre reinforced plastics, static and fatigue strength of adhesives; *air transport eng:* specific problems within gen fields of airline maintenance eng or airline eng economics and management. Contact DM Sykes

89:4 **Cranfield,** *Aerodynamics*, MSc/PhD

89:5 **Cranfield,** *Aircraft design*, MSc/PhD

89:6 **Glasgow,** *Aeronautics and fluid mechanics*, MSc/PhD

89:7 **Kingston Poly,** *Mechanical, aeronautical and production engineering*, MPhil/PhD

89:8 **London (Imperial),** *Aeronautics* MPhil/PhD; also MSc; 1 yr course in computational fl mechanics and structural mechanics in collaboration with Maths Dept, 6 mth lecture course, 6 mth project, aerodynamics and structural streams run in parallel: MPhil/PhD; supervision available; current research inc: *aerodynamics* structure of turbulent shear flows with sp ref to interacting shear layers and rapidly-distorted flows, calculation of development of turbulent shear layers, physical characteristics of bluff body flows, numerical simulation of bluff body wakes, road vehicle aerodynamics, fl loading on offshore structures, hypersonics, unsteady gas dynamics and shock diffraction, transonic and supersonic slender bodies, unsteady aerofoil and spoiler flows; *structural mechanics* current research inc: buckling of plates and shells, hydraulic shock, optimum design, fibre composites, finite element methods, accident simulation, dynamics, exptl analysis; hydraulically and mechanically operated testing machines, autoclave and assoc facilities for production of bonded structures and fibre composites Contact Professor PW Bearman

89:9 **London (Imperial),** *Computational fluid dynamics*, MPhil/PhD

89:10 **London (Queen Mary),** *Aeronautical engineering*, MPhil/PhD; research activities inc: *non-steady aerodynamics.* theoretical methods to calculate loads on aerofoils in unsteady conditions; *boundary layers and separated flows* low speed turbulent boundary layers, *jet characteristics:* exptl and theoretical studies of 2-d and axisymmetric jets inclined at small angles to free stream; *wake characteristics* diffusion effects in 2-d and 3-d wakes behind lifting wings; *stability derivs:* lateral stability derivs for wing-body combinations, *transonics.* theoretical methods for calculation of transonic behaviour of steady and oscillating aerofoils and wings, *wind turbines* aerodynamics of vertical axis wind turbines, *bluff body flows* parameters determining wake characteristics, *aerodynamics of road vehicles:* car/caravan combinations; *avionics:* fire and flight control systems for military aircraft, *structural dynamics* vibration characteristics of solar array panel type structures in vac, *resonance testing and analysis* application of time domain system identification techniques, *flow visualisation in turbulent boundary layer* variety of lighting techniques, *wind erosion of sand and soil* effects of tillage practices on aeolian erosion Contact Dr L Bernstein

89:11 **Manchester,** *Mechanics of fluids*, MSc/PhD; available in Dept of Aeronautical Engineering supervision available, research in progress inc. air-to-air refuelling, fundamental studies of jets and jet noise and of non-linear wave motion aimed at understanding production and propagation of aerodynamic noise and affecting its reduction, radial supersonic jets, supersonic jet impingement wave motion in stratified fls which has application to waves and turbulence in atm and oceans.

condensation and propagation of shock waves in clouds sonic booms vortex phenomen atmospheric vortices aircraft trailing vortices helicopter rotor vortices bluff body wakes pan methods for separated flows pulsating flow with particular application to biol fl dynamics an blood flows aerodynamics of bodies and wings at very high incidences development of computatio nal methods in fl dynamics high lift aerodynamics convective heat transfer flight simulation Contact Professor P Montague

89 12 Salford, *Aeronautical and mechanical engineering* MSc/PhD supervision available main research areas *eng dynamics and control* appl ed expert systems contr ol eng eng dynamics flight dynamics and control industrial systems eng *computer integrated manufacture* adv manufacturing technology CAD CAE CAM design manufacturing processes manufacturing systems eng *aerothermofluid mechanics* aerodynamics computational aerodynamics generalised duct design and numerical prediction methods fl mechanics thermodynamics *materials and surface eng* fl film lubrication fracture mechanics materials science surface coating technology Contact Dr KA Whyte

89 13 Southampton, *Aeronautics and astronautics* MPhil PhD

89 14 Warwick, *Fluid dynamics and thermodynamics* MPhil PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

15 Bristol, *Fluid mechanics,* MSc 1c yr f t course offered in alternate yrs next entry 1996 recog nised by SERC *course content* numerical methods in fl mechanics turbulence boundary layer theory hydrodynamic stability water waves geophysical fl mechanics heat and mass transfer 5 mth project assessment by examination and dissertation Contact Dr EJ Walker

6 Cranfield, *Aeronautical aerodynamics* MSc

Cranfield, *Aerospace materials engineering* MSc

Cranfield, *Aerospace vehicle design* MSc

Cranfield, *Air transport engineering* MSc

Cranfield, *Air transport management* MSc

Cranfield, *Applied flight mechanics* MSc

Cranfield *Avionics and flight control* MSc

Cranfield *Bio-aeronautics* MSc

ranfield, *Design of flow systems,* MSc

ranfield (Silsoe), *Bio-aeronautics* MSc

tfield Poly, *Astronomy and astronautics* MSc (CNAA)

nchester, *Applied mathematics and mechanics of fluids* MSc

ford, *Computational methods and fluid mechanics* MSc

rtificates and diplomas

gow *Aeronautics and fluid mechanics* Diploma

90 Engineering: biomechanical and biomedical

Higher degrees by research

90 1 Aberdeen, *Biomedical physics and bioengineering*, MSc/PhD
90 2 Bristol, *Electrical and electronic engineering*, MSc/PhD
90 3 City, *Electrical engineering and applied physics*, MPhil/PhD
90 4 Dundee, *Biomedical engineering* MSc/PhD
90 5 Durham, *Engineering science*, MSc/PhD
90 6 Edinburgh, *Medical physics and medical engineering*, MPhil/PhD supervision available topics in applications of physics or eng to medicine inc radiation dosimetry use of radionuclides in cardiology bone metabolism and body composition *in vivo* activation analysis use of ultrasound in imaging of body structures tissue characterisation and blood flow use of electronics in cardiology patient monitoring and microprocessor applications nmr imaging Contact Dr P Tothill
90 7 N Staffs Poly, *Biomedical engineering*, MPhil/PhD (CNAA)
90 8 Poly of Central London, *Biochemistry, applied microbiology and biotechnology*, MPhil/PhD (CNAA)
90 9 Salford, *Orthopaedic mechanics*, MSc/PhD
90 10 Sheffield, *Medical physics and clinical engineering*, MMedSci/PhD
90 11 Strathclyde, *Bioengineering*, MSc/PhD
90 12 Surrey, *Mechanical engineering*, MPhil/PhD
90 13 Sussex, *Biomedical engineering*, MPhil/DPhil
90 14 Warwick, *Bioengineering*, MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

90 15 Dundee, *Biomedical engineering science*, MSc
90 16 Strathclyde, *Bioengineering*, MSc
90 17 Strathclyde, *Microbial technology*, MSc
90 18 Surrey, *Biomedical engineering*, MSc/Diploma

91 Engineering: chemical and biochemical

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

91:1 Aston, *Chemical engineering*, MPhil PhD *See page 395*
91:2 Bath, *Chemical engineering*, MSc/PhD
91:3 Belfast, *Chemical engineering*, MSc PhD
91:4 Birmingham, *Chemical engineering*, MSc PhD *See page 396*
91:5 Bradford, *Chemical engineering*, MPhil/PhD
91:6 Bradford, *Powder technology*, MPhil PhD
91:7 Bristol Poly, *Biotechnology*, MPhil PhD (CNAA)
91:8 Cambridge, *Biotechnology*, MSc PhD
91:9 Cambridge, *Chemical engineering*, MSc/PhD
91:10 Cranfield, *Biotechnology*, MSc/PhD
91:11 Edinburgh, *Chemical engineering*, MPhil PhD; supervision available, research projects in heterogeneous and homogeneous catalysis, biomedical eng esp study of thrombus formation and coagulation, reaction eng, properties of packed and fluidised beds and dispersions, heat and mass transfer investigation using novel methods such as laser holography, computer modelling of complex structures such as large chem plants, dynamics and control, turbulent drag reduction; well-equipped reaction eng labs, computer for real-time data collection and control, intelligent knowledge-based systems in chem eng design, energy economy in relation to distillation, drying and heat storage, control of heat pumps. Contact Dr JM Davidson
91:12 Exeter, *Chemical engineering*, MPhil PhD
91:13 Heriot-Watt, *Chemical and process engineering*, MSc/PhD
91:14 Leeds, *Biotechnology*, MPhil PhD
91:15 Leeds, *Chemical engineering*, MEng MSc MPhil PhD *See page 396*
91:16 Leeds, *Fuel and energy*, MSc MEng MPhil PhD; supervision available; research interests: combustion of natural gas and other gaseous fuels in pre-mixed and diffusion flames; computational and exptl studies of flame structure, formation of soot during combustion and its radiation; flame noise and flame turbulence, convective heat transfer from flames; shock tube studies of combustion and pyrolysis, computer modelling, spray combustion; high intensity combustion of gaseous and liq fuels, ignition and explosion phenomena; formation of combustion-generated pollutants and atm pollution, fire research, fluidised bed combustion and gasification of coal; solar energy and energy storage, alternative fuels. Contact Professor A Williams
91:17 London (Imperial), *Biotechnology*, MPhil/PhD
91:18 London (Imperial), *Chemical engineering and chemical technology*, MPhil/PhD
91:19 London (UC), *Biochemical engineering*, MPhil/PhD; in Dept of Chem and Biochem Eng; current research programmes inc projects in fermentation; immobilised enzyme and cell technology; downstream processing of products from fermenters and other bioreactors; processing of products resulting from recombinant DNA technology and protein eng; protein processing technology; food process eng, high-level computer control of biotechnological processes; research facilities at UCL inc extensive mod pilot plant based on 100 L and 1000 L fermenters and associated downstream processing equipt, applications welcomed from biochem and chem engineers, biochemists and microbiologists, successful applicants would join leading research teams in biochem eng. Contact Dr M Hoare
91:20 London (UC), *Chemical engineering*, MPhil/PhD, current research programmes inc projects in *combustion*: kinetics of reactions, engine studies, combustion of fuel oils, coal and coal-liq mixtures, air pollution, *crystallisation*: nucleation and crystal growth, crystalliser design, dissolution, precipitation, *fluid-particle systems*: fluidisation studies at high temps and pressures, liq fluidised beds and three-phase fluidisation, chem reactions in fluidised beds, particle technology,

rheology and mixing dispersion and suspension of solids in stirred tanks two-phase
dynamics mass transfer in stirred vessels diffusion in porous catalysts mixing and se
fl particle systems Contact Dr AR Burgess

91 21 Loughborough, *Chemical engineering* MPhil/PhD supervision available *plant en* prevention hazard analysis *food eng and biotechnology* inc fermentation protein *particle technology)* inc dust control powder flow water treatment process techn polymerisation reactors jet mixing fl properties *solid fl systems* inc sorption chroma porous media Contact Dr A Foord

91 22 Manchester (UMIST), *Chemical engineering* MSc/PhD *See page 396*

91 23 Manchester Poly, *Mechanical production and chemical engineering* MPhil PhD (CNA

91 24 Middlesex Poly, *Fuel technology* MPhil/PhD (CNAA)

91 25 Newcastle, *Chemical engineering and energy engineering* MSc PhD supervision availab rent areas of interest process control development of on line computer control systems usi adaptive predictive and self tuning techniques math modelling of processes and develo CAD techniques electrolytic process eng heat and mass transfer processes in films on su rotating at high speeds pollution control and effluent treatment heterogeneous catalyti cesses fluidised bed combustion energy storage use pattern of energy sources and develop of new energy sources (SERC) Contact Rev Dr JH Harker

91 26 Newcastle, *Microbiology*, MSc/PhD

91 27 NE London Poly, *Chemical engineering* MPhil/PhD (CNAA)

91 28 Nottingham, *Chemical engineering* MPhil/PhD supervision available research interest *process control and computer applications* development of steady state and dynamic model process plant batch process operational control state and parameter estimate for impr on line digital computer process control *mass transfer processes* adsorptive drying of ethan effect of tray hydraulics on efficiency of distillation trays *fl mechanics* fl dynamics of oil slick 2 phase flow studies gas chromatography *design of process eqpt* stresses in bulk particula solids *project eng and safety* computer aided plant layout methods prevention of major accident *polymer eng* investigation into structure props and production of 2 phase polymeric materials *environmental eng* application of cryogenics and elutriation to waste recycling water quality and pollution studies incineration of chlorinated hydrocarbons industrial effluent treatment *patents* analysis of patent litigation patent portfolios *process development* coal liquefaction coal characterisation ammoniation reactions salting-out crystallisation *biochem eng* fermenter studies fundamental studies of biochem kinetics downline processing Contact Dr JA Wilson Director of Research Studies

91 29 Poly of Central London, *Biotechnology research* MPhil PhD (CNAA)

91·30 Poly of Wales, *Chemical engineering* MPhil/PhD (CNAA) supervision available current research interests inc biochem eng (inc anaerobic and aerobic digestion of waste materials microbial synthesis of polymers) centrifugal molecular distillation of high boiling heat sensitive materials, fast solid/solid reactions rheology of non Newtonian fls pyrolysis of coal recovery of protein from cheese whey effluent FTIR spectroscopy of propellant flames Contact Dr GJ Rees

91 31 Salford, *Chemical and gas engineering* MSc/PhD supervision available research interests in following areas some specific projects named *heat pumps and heat transfer* development of new refrigerants improvement of heat transfer to and from heat pump exchangers *chem reaction eng* heterogeneous gas solid reaction systems catalyst deactivation inc study of poisoning of catalysts by impurity in feed stream *multiphase flow systems* properties of 3 phase systems containing gas liq and dispersed solids flow of 2 immiscible liqs through porous bed *gas eng* study of variety of heating strategies using gas in high thermal capacity low energy houses (inc ventilation humidity internal heat transfer and storage) more effective network analysis techniques *fl phase equilibria* development of various algorithms *process optimisation and simulation* development of computer algorithms for soln of steady state chem process optimisation problems *process dynamics and control* dynamic modelling of chem processes on line digital control Contact PJ Diggory

32 Sheffield, *Biotechnology*, MSc/PhD supervision available in Wolfson Inst of Biotechnology research interests various aspects of natural product synthesis biochem of substrate utilisation genetics of eukaryotic systems cell-cell recognition yeast biochem and physiol technology of batch semi-continuous and continuous culture in vessels up to 250 litres bioreactor design and construction fermentation computer control Contact Professor MW Fowler

3 Sheffield, *Chemical engineering and fuel technology* MEng MScTech PhD

| South Bank Poly, *Chemical engineering*, MPhil PhD (CNAA) supervision ... lable research topics inc computer aided process synthesis and design integration objectives coking of heavy petroleum feedstocks and other processes con

of substitute natural gas; major hazards and loss prevention techniques in chem industry; explosions and fires; mass transfer with chem reaction; optimal allocation of design margins; computer flowsheeting theory; novel solvent extraction techniques with applications in biochem processing; social and econ studies of chem and allied industries; also topics in surface eng inc electropolishing of metals and anodic oxidation of Al; fluidised bed electrodes; electrodeposited composite coatings; electroless composite coatings; electrophoretically-deposited coatings; electroforming of alloys; electrolytic production of alloy powders; corrosion studies. **Contact** BG Reuben

91:35 **Strathclyde,** *Chemical and process engineering,* MSc/PhD

91:36 **Surrey,** *Chemical and process engineering,* MPhil/PhD; main areas of research, some specific projects named: *particle technology:* fluidisation and fl bed processing; gas cleaning and filtration; attrition and erosion; agglomeration and coating; storage and handling of bulk materials; *adsorption technology:* energy-efficient liq purification processes; gas separation by adsorption; pressure swing adsorption; adsorbent characterisation; manufacture and application of novel adsorbents; *biotechnology:* control of fermenters; treatment of industrial waste liquors; purification of biol active species; mechanics and dynamics of cell cultures; *fuel technology:* flame control; grate and vortex combustion; flow modelling and simulation; *domestic eng:* quantification and control of surface cleanliness. **Contact** Dr NF Kirkby

91:37 **Teesside Poly,** *Chemical engineering,* MPhil/PhD (CNAA); incorporates applied research project with active co-operation of industry; *recent areas of research inc:* reactor eng, separation processes and design and process economics, biochem eng; *current projects inc:* exptl study of induction heated catalytic reactor, biochem eng, isolation of proteins and downstream processing; dissociation, metals and solvent-gas extraction and highly non-ideal distillation processes, solid-liq mixing, crystallisation and droplet formation; plant dynamics and computer control, optimisation, manpower forecasting, computer-aided cost estimation and plant reliability. **Contact** Dr AM Gerrard

91:38 **Wales (Cardiff),** *Mechanical engineering and energy studies,* MSc/PhD

91:39 **Wales (Swansea),** *Chemical and biochemical engineering,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research proje (normally lasting three months) with submission of a written report, dissertation or thesis is normal a part of these courses.

91:40 **Birmingham,** *Biochemical engineering,* MSc(Eng) *See page 396*

91:41 **Birmingham,** *Process biotechnology,* MSc *See page 396*

91:42 **Bradford,** *Chemical engineering,* MEng/MSc

91:43 **Durham,** *Biotechnology,* MSc

91:44 **Hatfield Poly,** *Biotechnology,* MSc (CNAA)

91:45 **Leeds,** *Combustion and energy,* MSc

91:46 **Leeds,** *Integrated design of chemical plant,* MSc

91:47 **London (Birkbeck),** *Biophysics and bioengineering,* MSc

91:48 **London (Imperial),** *Advanced chemical engineering,* MSc/DIC

91:49 **London (Imperial),** *Biotechnology,* MSc/DIC

91:50 **London (Imperial),** *Technology and development,* MSc/DIC

91:51 **London (UC),** *Biochemical engineering,* MSc/Diploma, 1 yr f-t (deg in pure science req for Facult of Eng course, deg in chem or mechanical eng req for Faculty of Science course); 2 separate bu integrated courses for students with backgrounds in science or eng; *Faculty of Eng:* topics i biochem eng and chem eng, inc unit operations, process analysis and computing; exptl work in ad pilot-plant facility; design undertaken for complete biol industry plant; *Faculty of Science:* topics i biochem eng and biochem, inc enzymology, microbial metabolism and genetics, use of pilot-plan facilities for exptl and project work, 3 mth project undertaken in conjunction with research tean (MSc recognised for SERC studentships). **Contact** Dr NM Fish

91:52 **Loughborough,** *Chemical plant operation and management,* MSc

91:53 **Manchester (UMIST),** *Advanced chemical engineering,* MSc/DipTechSci

91:54 **Manchester (UMIST),** *Advanced chemical technology,* MSc/Diploma

91:55 **Manchester (UMIST),** *Bioreactor systems,* MSc/Diploma *See page 396*

91:56 **Poly of Central London,** *Biotechnology,* MSc (CNAA)

91:57 **Sheffield,** *Combustion science and pollution control,* MScTech

91.58 **South Bank Poly**, *Biotechnology*, MSc (CNAA)
91:59 **Strathclyde**, *Plant and process design*, MSc
91.60 **Surrey**, *Energy engineering*, MSc/Diploma
91:61 **Thames Poly**, *Biotechnology*, MSc (CNAA)
91:62 **Ulster**, *Energy studies*, MSc
91:63 **Wales (Swansea)**, *Biochemical engineering*, MSc *See page 398*
91 64 **Wales (Swansea)**, *Chemical engineering*, MSc *See page 398*

Certificates and diplomas

91 65 **Bradford**, *Chemical engineering*, Diploma
91.66 **Cambridge**, *Chemical engineering*, Certificate
91 67 **Leeds**, *Fuel and energy*, Diploma
91.68 [illegible]
91:69 [illegible]
91:70 [illegible]
91:71 [illegible]
91:72 [illegible]

Chemical engineering

UNIVERSITY OF ASTON

Degree MPhil/PhD by research
Length of course 2 to 3 years
No of places Up to 15 a year

Description of course *It is the aim of the Department to* provide a spectrum of research activity from the fundamental to the more applied aspects of chemical engineering There are two research groups in the Department – The Mass and Heat Transfer Group and The Chemical and Biochemical Processes Group These groupings express the research [illegible] engineering processes for the separation of mixtures of chemicals The three processes of particular interest are liquid liquid extraction spray drying and distillation the Group is also concerned with resource and energy saving and heat transfer studies The work of the Chemical and Biochemical Processes Group is centred on the modelling design and evaluation of 1 reactors for biochemical and thermochemical processes, 2 systems for separating biochemicals using production scale chromatography and ultra filtration membranes, and 3 applied computation and risk assessment studies During the development of a new process it is necessary to make comparisons with alternative processes and so cost analysis and economic evaluation are also active interests

Entrance requirements Applicants should have a good first degree in chemical engineering or a relevant discipline

Grants SERC and University Studentships are available for suitably qualified candidates

Applications and enquiries Dr E L Smith Department of Chemical Engineering Aston University Aston Birmingham B4 7ET Telephone [illegible]

University of Birmingham

DEPARTMENT OF CHEMICAL ENGINEERING

Degrees MSc(Eng) by course and project 1 year full-time
MPhil(Eng)/PhD by research 1–3 years full-time

Taught course **MSc Biochemical Engineering/Process Biotechnology.** For students interested in application of biological organisms to manufacturing and service industries as follows
Module 1 Biology and biochemistry (Biochemical engineers), Chemical engineering (Process biotechnologists), Modules 2–6 Common to all students (Biological process development, bio-reactor design, waste treatment/applied genetics, instrumentation and microprocessor control, food preservation) Research project 4 months approx

Entry requirements Biochemical engineers good honours degree in chemical engineering, Process biotechnologists good honours degree in biochemistry, microbiology or a related discipline

Research Main research areas include
- Biochemical engineering/Process biotechnology
- Minerals engineering, particulate technology materials processing
- Mixing in agitated vessels
- Heat transfer and fouling
- Separation processes, interfacial phenomena
- Process simulation and control
- Catalyst preparation and development, chemical processing

Entry requirements A good honours degree in chemical engineering, biological sciences or related subject

Head of Department Professor J Bridgwater

Enquiries Dr A J Barker, Postgraduate Tutor, Department of Chemical Engineering, The University of Birmingham, PO Box 363 Birmingham B15 2TT, UK Telephone 021-472 1301 ext 3005

UNIVERSITY OF LEEDS

CHEMICAL ENGINEERING

Degrees MSc(Eng)/MPhil/PhD by research Period of study 1 3 years full time 2 5 years part time MSc by course and project Period of study 1 or 2 years full time

Research courses in addition to traditional MPhil and PhD research projects the Department offers one year full time research projects leading to the degree of MSc(Eng) The main areas of research centre on *CAD and database studies* for the integrated design of chemical process plant optimal design of integrated energy systems *on line control studies* for chemical reactors *facilities for* the study of reaction kinetics reactor stability and optimisation using experimental reactors coupled to an extension network of Departmental and University microcomputers mini computers and mainframes *chemical process development* novel nitric acid process evaluation catalyst development and evaluation *measurement and correlation of thermodynamic properties of mixtures* apparatus available for measuring phase equilibria enthalpies and Joule Thompson coefficient heat pump studies two phase thermodynamic properties *dispersed systems* using ultra high speed cine photography studies involving formation of sprays atomisation of liquids flow of particulate suspensions *heat transfer* experimental and theoretical studies for the design of regenerators and reactors *electrolysis* using fluidised electrode systems *solid liquid systems* experiments to evaluate multi stage counter current washing *computing* extensive use for on line experimental and theoretical projects using work stations microprocessors and Departmental Data General MV/10 000 linked to dual processor PDP VAX 11/780 and PRIME and AMDAHL V7 mainframes

Entry requirements Good honours degree in chemical engineering or a related subject

Taught course MSc with options to concentrate on process design, biotechnology unit operations process control or management studies Central theme is broadening of background in chemical engineering to give students confidence to tackle real industrial problems Exams during and at end of course work thesis at end of project

Entry requirements Honours degree in chemical engineering or a related subject and/or suitable professional experience

Head of Department Professor Colin McGreavy

Enquiries Professor Colin McGreavy Department of Chemical Engineering Leeds University Leeds LS2 9JT UK Telephone 0532 431751 ext 7284

UMIST

UNIVERSITY OF MANCHESTER INSTITUTE OF SCIENCE AND TECHNOLOGY

Postgraduate Studies in Chemical Engineering

- **MSc in Reaction and Separation Systems** (91 53)
The course is concerned with advanced concepts in the design of chemical reaction and separation processes

- **MSc in Process Integration**
The objective of this course is to familiarise the student with the latest techniques for the design of integrated processes

- **MSc in Bioreactor Systems**
This course is concerned with the microbiology and biochemical engineering of fermentation processes

These MSc courses comprise two terms of lectures and an extended 5 month dissertation project They provide excellent training for candidates proposing a career in research & development

- **MSc/PhD by Research** (91 22)
A wide range of interesting and challenging projects are available, many sponsored by industry, government departments and the EEC

For further details write quoting Ref 86/1 to
The Postgraduate Admissions Tutor
Department of Chemical Engineering
UMIST, Manchester M60 1QD ENGLAND

The University of Sheffield

The Department of Chemical Engineering and Fuel Technology offers a

DIPLOMA in COMBUSTION and POLLUTION TECHNOLOGY

This Diploma is designed as a conversion course for graduates in scientific, engineering and other technological subjects who wish to gain a thorough understanding of the principles and practice of combustion and pollution technology It is also a suitable preparation for those wishing to proceed to a higher degree in fuel and energy topics
The course length is one academic year beginning in October and will cover, by lectures, practical classes and tutorials, the following topics

Fuel Processing
Fuel Plant Technology
Fuel and Energy Engineering
Chemical and Power Thermodynamics
Environmental Pollution
Combustion and Pollution Technology
Nuclear Reactor Engineering

with examination of these lecture courses taking place the following June
Industrial visits will form an integral part of the course
For further information and an application form write as soon as possible to

Dr P J Foster
Postgraduate Admissions Tutor
Department of Chemical Engineering and Fuel Technology
The University of Sheffield
Newcastle Street, Sheffield S1 3JD
United Kingdom

Cryogenics

SOUTHAMPTON U

Degree MSc/PhD

Length of course 1 year full time (MSc) 3 years full time (PhD) part time by arrangement

Description of course The Institute of Cryogenics at Southampton covers all training and research fields in the application of low temperatures below about 250 K Subjects covered include cryogenic systems engineering and design refrigeration and liquefaction mechanical and thermal properties of concrete composites and other structural materials cold electronics heat transfer and fluid stability in single and 2 phase systems improvement of multi layer and foam insulations storage handling and instrumentation of LHe LIN LOX LPG cryosurgery and cryomedical techn trans-sonic wind tunnels space cryogenic mechanical systems magnetic separation superconducting magnets for minerals and cryo-chemistry

Entrance requirements Good degree in eng appropriate science subject

Grant SERC and other institutions

Head of Department Professor R G Scurlock

Application and enquiries The Academic Re University of Southampton SO9 5NH Tele 0703 559122

Alternative energy for developing countries

UNIVERSITY OF RE

Degree MSc/Diploma

Length of course MSc – 15 months full time Diploma 12 months full time

Number of places 20

Description of course The aim is to provide an understanding of the basic principles of energy resources conversion and utilisation related to the use of alternative energy in developing countries Other topics covered include technical choice and appropriate technology and energy policy and planning Emphasis is placed on interdisciplinary teaching The course is divided into two parts part one consists of lectures laboratory work and a written project following the examinations during the second part the participants undertake a practical project relevant to their own countries needs

Entrance requirements For the MSc an honou an appropriate science or technological subject Diploma a degree or equivalent in an appropria subject One year s practical experience or longe be beneficial

Grant Overseas students should apply for an awa one of the International Aid Agencies through the Governments SERC advanced studentships are available for UK applicants

Head of department Professor I D Dunn

Applications and enquiries Ms J Clancy MSc Dipl Course Co-ordinator Department of Engineering Box 225 University of Reading Reading RG6 2AY Telephone 0734 875123 ext 7332 Telex 874813 RU L



IMPERIAL COLLEGE

of Science and Technology

UNIVERSITY OF LONDON

Department of Chemical Engineering and Chemical Technology

The interests of the Department range from technological studies of processes and equipment, through techniques for planning, design and control of processes, to fundamental scientific study of the underlying physical and chemical phenomena Excellent facilities are available for study towards MSc, MPhil and PhD Degrees

Current fields of RESEARCH are
- Computer Aided Design and Process Control
- Separation Processes
- The Physical Properties of Fluids, Solids and Interfaces
- Applied Catalysis and Reaction Engineering
- Nuclear technology
- Combustion and Energy
- Biotechnology
- Technology for Developing Countries

One Year MSc COURSES are offered in
- Advanced Chemical Engineering
- Nuclear Technology

The teaching and research laboratories are exceptionally well equipped and fully backed with comprehensive technical services The facilities available include high pressure engineering laboratories for studies up to 80,000 bar, a special laboratory complex for high energy radiation studies equipped with a Cobalt-60 source and Van de Graaff generator, a high-grade clean laboratory for work on surfaces, a pilot plant laboratory with three computer controlled plants, and a wide range of analytical facilities The Department has two classrooms equipped with a total of 70 visual display terminals of which 42 are connected to the College and University computer complexes and 28 are connected to a Departmental IBM 4341 computer with 12M bytes of core memory

SERC studentships are available for research There are also a number of CASE awards and Research Assistantships, associated with specific research projects, sponsored by industry or government establishments

The DIC (Diploma of Imperial College) is awarded to all who qualify for a higher degree and to those who, having previously obtained a suitable first degree, complete at least one year of postgraduate research, assessed by submission of a dissertation and/or examination

Further information about the Department and/or College may be obtained from
The Registrar, Imperial College, London SW7 2AZ

University College of Swansea

Department of Chemical Engineering

Postgraduate Studies

Founded in 1920, the College is one of the seven constituent institutions of the University of Wales Since its foundation, the College has always been outward looking and draws its students from all over the world Currently over 490 students are from overseas (from 59 countries) and they bring a cosmopolitan atmosphere to the life of the College
Its location, in a large landscaped area of parkland just west of the City of Swansea, and adjacent to the beautiful Gower Peninsula ensures that the College is a most pleasant place in which to study The City of Swansea enjoys excellent road and rail links with London and the principal cities of Britain

The Department of Chemical Engineering is housed in a large modern building and has excellent facilities and technical support for both teaching and research

MSc in Chemical Engineering by examination

This scheme is designed for graduates who wish to complete postgraduate studies in 12 months Courses are arranged on an optional basis over a period of 6 months to suit the individual requirements of each student Typical packages can be provided in the areas of reactor design control plant design, etc The programme is completed with a short research project Minimum entrance requirement is a lower second class honours degree or its equivalent (normally in Chemical Engineering)

MSc in Biochemical Engineering by examination

This is a 12-month programme designed for those wishing to pursue future careers in the biochemical engineering industry Courses are provided in such topics as biochemical reactors, relevant biochemistry and microbiology, optimisation, biochemical process design, etc The programme is completed by a short research project The minimum entrance requirement is a lower second class honours degree or its equivalent in Chemical or Biochemical Engineering, or in Chemistry, Biochemistry or Applied Biological Sciences

PhD

Major areas of research in the department cover hydraulic conveying, packed-bed reactors, mass and heat transfer in packed and fluidised beds, reactor control, non-Newtonian flow, chromatography, computer-aided design, air and water pollution, effluent treatment, protein production

It normally requires three years to obtain the degree of PhD Minimum entrance requirement is an upper second class honours degree or its equivalent in a suitable discipline

Diploma in Chemical Engineering

This is a 12-month conversion programme suitable for graduates of other disciplines and consists of basic chemical engineering coursework and a major design project The minimum entrance requirement is a lower second class honours degree or its equivalent Successful completion of the Diploma forms a basis for admission to an MSc course

For further information please write to **The Postgraduate Admissions Tutor, Department of Chemical Engineering, University College Swansea, Singleton Park, Swansea SA2 8PP, Wales, UK.**

92 Engineering: civil and stuctural

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

92 1 **Aston,** *Civil engineering and construction,* MPhil/PhD
92 2 **Bath,** *Architecture and building engineering,* MSc/PhD
92 3 **Belfast,** *Civil engineering,* MSc/PhD supervision available research mainly concerned with soln of problems arising in construction industry study of structures and their foundations construction materials hydraulics public health eng and water resources and traffic and highway eng principal current research projects inc hydrodynamics of wave energy converters ultimate strength analysis/design of reinforced concrete and steel structures study of slab column structures under earthquake loading design of offshore concrete structures computer analysis of suspension

92 4 **Birmingham,** *Civil engineering* MSc/PhD
92 5 **Bradford,** *Civil and structural engineering,* MPhil/PhD
92 6 **Brighton Poly,** *Civil engineering,* MPhil/PhD (CNAA)
92 7 **Bristol,** *Civil engineering* MSc/PhD
92 8 **City,** *Civil engineering* MPhil/PhD supervision available *hydraulics and hydrology* sediment transport free surface flows waves wave structure interactions flow resistance and secondary

destructive stress measurement in steel plates *geotechnical eng* stress strain behaviour of natural soils lab tests stress path testing of soils modelling and field measurements of ground movements finite element calculations using critical state soil mechanics structural behaviour of

92 9 **Coventry (Lanchester) Poly,** *Civil engineering and building,* MPhil/PhD (CNAA)
92 10 **Dundee,** *Civil engineering* MSc/PhD *See page 406*
92 11 **Edinburgh,** *Civil engineering* MPhil PhD
92 12 **Glasgow,** *Civil engineering* MSc/PhD
92 13 **Heriot Watt,** *Civil engineering* MSc/PhD
92 14 **Kingston Poly,** *Civil engineering* MPhil/PhD (CNAA)
92 15 **Leeds,** *Civil engineering* MEng/MPhil/PhD supervision available for research current interests inc *structural eng* shear strength of composite concrete bridge decks creep of concrete fatigue of partially pre stressed concrete beams bolted steel connections *eng materials* properties of

bounded flow, unsteady free surface flow; *solar energy:* space heating and cooling using passive solar energy. Contact Professor DD Mara

92:16 Leeds Poly, *Building and civil engineering,* MPhil/PhD (CNAA)

92:17 Leicester, *Civil and structural engineering,* MPhil/PhD

92:18 Liverpool, *Civil engineering,* MEng/PhD; facilities for research work in most branches of civil eng, plus large labs for work in structures, hydraulics, coastal and offshore eng. Contact Miss P Breen

92:19 Liverpool Poly, *Civil engineering,* MPhil/PhD (CNAA)

92:20 London (Imperial), *Civil engineering,* MPhil/PhD

92:21 London (KQC), *Civil engineering,* MPhil/PhD

92:22 London (Queen Mary), *Civil engineering,* MPhil/PhD; supervision available, research inc: *structures:* inelastic analysis of plate and shell structures, dynamic transient analysis of shell-core systems, min wt design of core-stiffened cylindrical shells; *hydraulics:* shear stress distribution and vel profiles in river channel floodplain cpd sections, characteristics of labyrinth weirs with sp ref to scale-effects, *hydrology:* development and refinement of math flood routing models, numerical modelling of river systems, *continuum mechanics,* development of mapping finite elements for economical and accurate soln of continuum problems; *geotechnical eng:* gen behaviour and creep of soft rocks with ref to foundation design, behaviour of large driven piles, soil-structure interaction of buildings supported on shallow and deep foundations; *transport eng:* skid resistance of pavement surfaces, analytical techniques for accident reconstruction, transport planning for recreational activities; *construction management:* controlling time and money on large civil eng projects, project control by client organisations. Contact Professor TJ Poskitt (Head of Dept)

92:23 London (UC), *Civil and municipal engineering,* MPhil/PhD; supervision available, current research inc: *concrete and concrete structures:* cementitious grouts for offshore structures; lab and site methods of non-destructive testing of concrete; *dynamics:* vibration and stability of structures subjected to environmental loadings of wind, wave and earthquakes; computer simulation and non-deterministic analysis methods with power spectral studies; *fl mechanics:* structure of turbulence in boundary layers; oscillatory waves and wave/current interaction; wave loading on offshore structures, *public health eng:* physical, chem and microbiol aspects of treatment processes for water supply and sewage disposal; *soil mechanics:* stress-strain behaviour of soils and reinforced earth relevant to environmental loadings of sea waves, wind and earthquakes; exptl developments, radiography to determine internal strain distributions and controlled continuous variations of principal stress directions; process eng; materials handling; structural eng; buckling strength and stability of structures, stability of gen systems; liner dynamics and collapse of shell behaviour; *transport:* see Engineering: traffic, transport and highway. Contact Dr JRF Arthur, Post Graduate Adviser

92:24 Loughborough, *Civil engineering,* MSc/PhD

92:25 Manchester, *Civil engineering,* MSc/PhD; supervision available; research in following fields, some specific projects named: *steel structures:* strength and elastic buckling behaviour of folded plate panels under complex loading, stability problems in plastic design of steel frames, properties of composite cylindrical shells under pressure and applications to offshore structures *concrete structures:* fatigue of rc beams and their components, new connectors for composite construction, novel ways of combining steel and concrete, strengthening existing concrete structures; *soil structures:* offshore gravity and deep-sea oil-production platforms; *strength of soil materials:* influence of cyclic loading on liquefaction of saturated sands and softening of clays with sp ref to offshore structures; *hydrodynamics:* studies of estuaries, waves, currents, turbulence, heat transfer, boundary layers, evaporation, geophysical and groundwater flows, flood forecasting, forces on offshore structures, sedimentation transport, combined sewer design, storage requirements, quality of combined sewage flows and their impact on receiving watercourses, analytical computer vision, hydrodynamic impact and siltation around structures; *maritime civil eng: MSc by instruction.* Contact Professor P Montague

92:26 Manchester (UMIST), *Civil and structural engineering,* MSc/PhD; supervision for research, interests in photogrammetry, hydraulics, soil mechanics, project management, transportation, community eng, water pollution control, water resource planning, offshore eng; *projects inc:* quantitative imagery analysis and accuracy in short-range photogrammetry, automated surveyed system, response of floating structures to waves, vortex-excited oscillation of pipelines, centrifuge modelling of soil structures and foundations, lateral loading of piles, risk management of construction contracts, cost estimating, yield of water supply reservoirs, operation and maintenance of water and wastewater treatment plants, transport policy, planning and operation, fatigue and fracture in welded steelwork, offshore structures, bridge girders, ultimate load behaviour of reinforced concrete and steel framework, reinforced concrete joints, dynamic behaviour of suspen-

sion bridges and development of structural eng computer systems and computer graphics,

92 27

92 28

92 29 **N Staffs Poly,** *Mechanical and civil engineering*, MPhil/PhD (CNAA)
92 30 **Nottingham,** *Civil engineering*, MPhil/PhD
92 31 **Paisley CT,** *Civil engineering*, MPhil/PhD (CNAA)
92 32 **Plymouth Poly,** *Civil engineering*, MPhil/PhD (CNAA) supervision for research available main

92 33

92 34 **Portsmouth Poly,** *Civil engineering*, MPhil/PhD (CNAA)
92 35 **Salford,** *Civil engineering* MSc/PhD *See page 407*
92 36 **Sheffield,** *Civil and structural engineering*, MEng/PhD
92 37 **Sheffield City Poly,** *Civil engineering*, MPhil/PhD (CNAA)
92 38 **Southampton,** *Civil engineering*, MPhil/PhD
92 39 **Southampton,** *Irrigation studies*, MPhil/PhD
92 40 **South Bank Poly,** *Civil engineering*, MPhil/PhD (CNAA) current research topics inc rubble mound breakwaters repair and maintenance of concrete and masonry structures performance monitoring at full scale of geotechnical structures numerical analysis techniques applied to study of soil structure interaction
92 41 **Strathclyde,** *Civil engineering* MSc/PhD
92 42 **Sunderland Poly,** *Civil engineering*, MPhil/PhD (CNAA)
92 43 **Surrey,** *Civil engineering* MPhil/PhD supervision available research in following areas some

92 44 **Sussex,** *Mechanical and civil engineering*, MPhil/DPhil
92 45 **Teesside Poly,** *Civil and structural engineering and building*, MPhil PhD (CNAA)
92 46 **Thames Poly,** *Civil engineering*, MPhil/PhD (CNAA)
92 47 **Trent Poly,** *Civil and structural engineering*, MPhil/PhD (CNAA)
92 48 **Ulster,** *Civil engineering*, MPhil DPhil
92 49 **Wales (Cardiff),** *Civil and structural engineering*, MSc/PhD supervision available research interests inc steel plate and box girders aluminium girders multi-cellular marine structures composite flooring slabs with profiled steel sheeting optimisation and optimum design of structures soil structure interaction stability and dynamics of structures theorems of structural variation model analysis as design tool analysis of shells development of finite elements based on strain stability of masonry arches behaviour of cable nets active control of structures fibre reinforced materials fracture mechanics non-destructive testing of concrete stress strain time relationships for clays heat and mass transfer in soils flow of water in partially saturated soils constitutive relationships for anisotropic soils development of computerised soil testing facilities performance of embankments on soft clay foundations flow in porous media satellite imagery in water resources river erosion in cohesive soils hydrological data in damage analysis use of robotics in civil eng Contact Dr HR Thomas
92 50 **Wales (Swansea),** *Civil engineering*, MSc/PhD supervision available research activities inc *finite element analysis* development of gen math approaches and computer programs for applications in structural fl and geomechanics *structural mechanics* numerical methods applied to structural elasticity and plasticity and large deformation problems analysis of bridges dams and nuclear reactors earthquake and wave response of offshore structures model testing *fl mechanics*

harbour oscillations, flow through granular media, seepage studies, degradation of river beds, dispersion of pollutants in estuaries etc, use of numerical and exptl techniques; *geomechanics:* flow of soils, effects of pore water pressure and cyclic load on foundations, gen applications in rock mechanics, numerical applications to fracture mechanics, studies of constitutive relations of soils and numerical soln of soil mechanics problems by finite element methods, exptl studies in concrete technology. Contact Dr DJ Naylor

92:51 **Wales (UWIST),** *Civil engineering and building technology,* MEng/PhD; opportunities for f-t research available in a number of fields inc: concrete technology, geotechnical eng and eng geol, highway and traffic eng, hydrology and water resources technology, structural eng, application of computers in civil eng and building technology. Contact Drs JP Baty or SP Bentley

92:52 **Warwick,** *Civil engineering,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

92:53 **Belfast,** *Civil engineering,* MSc Diploma, 1 yr f-t; 3 yrs p-t; *course content:* 5 modules from range plus project dissertation, modules inc: foundations, structures, water eng, traffic and highways, computing, management, materials, planning, design; (Cert awarded on completion of 1 module and exam, Diploma awarded on completion of course if MSc standard not achieved). Contact JD Ferguson

92:54 **Birmingham,** *Construction management,* MSc *See page 406*

92:55 **Birmingham,** *Foundation engineering,* MSc *See page 406*

92:56 **Birmingham,** *Water resources technology,* MSc *See page 406*

92:57 **Bradford,** *Structural engineering,* MSc/Diploma

92:58 **Cambridge,** *Soil mechanics,* MPhil

92:59 **City,** *Civil engineering (highways and transport),* MSc

92:60 **City,** *Civil engineering (structures),* MSc, min 14 mths f-t; min 2 yrs p-t (at least good 2nd class hons deg req), course content analytical and professional; *compulsory modules:* maths, indeterminate structures, materials, continuum mechanics, finite element methods, dynamic stability, plates and shells, foundations eng; *elective modules:* 2 from design of concrete structures, design of steel and composite structures, shell, space and tension structures, marine structures, bridge eng, planning control and economics; exptl and/or analytical project. Contact Dr S Gill

92:61 **Cranfield,** *Engineering construction project management,* MSc

92:62 **Cranfield,** *Strategic planning,* MSc

92:63 **Cranfield,** *Wind engineering,* MSc

92:64 **Dundee,** *Civil engineering,* MSc/Diploma *See page 406*

92:65 **Heriot-Watt,** *Hydraulics,* MSc/Diploma,

92:66 **Heriot-Watt,** *Soil mechanics,* MSc/Diploma

92:67 **Heriot-Watt,** *Structural engineering,* MSc/Diploma

92:68 **Leeds,** *Civil engineering in hot climates,* MEng, 1c yr f-t; concerned with civil eng problems in tropics and subtropics with emphasis on needs of developing countries; *basic core:* development economics and planning, project appraisal techniques, surveying, management, alternative energy, civil eng materials; *2 options from:* construction eng, tropical public health eng, irrigation eng, highway eng, transport planning and management; plus either dissertation or design project and long essay. Contact Professor DD Mara

92:69 **Leeds,** *Construction engineering,* MSc, 1c yr f-t; 2c yrs p-t; *course content:* gp of subjs from: concrete in construction (structural elements and design, concrete materials, concrete construction and selected options); *or* construction management (gen and project management, construction economics, stat methods, computer applications, foundation eng, building services eng); small gp projects; feasibility study; dissertation. Contact Professor DD Mara

92:70 **Liverpool,** *Environmental civil engineering,* MEng/Diploma

92:71 **Liverpool,** *Maritime civil engineering,* MEng/Diploma

92:72 **Liverpool,** *Structural engineering,* MEng/Diploma *See page 406*

92:73 **London (Imperial),** *Concrete structures,* MSc/DIC, 1 yr f-t (deg in civil eng req, practical civil eng experience desirable), *syllabus,* analysis and design in context of concrete materials and structures; phil and design of structures, mechanics of materials, eng analysis, eng computation, structural

analysis plates and shells pre stressed concrete, concrete materials reinforced concrete thermal and other time dependent phenomena in concrete eng computation concrete lab work design projects written exams dissertation (SERC) Contact Dr M Baldwin

92 74 London (Imperial), *Engineering hydrology*, MSc/DIC 1 yr f t 2 yrs p-t based on application of physical life and math sciences to problems of eng hydrology emphasis on approp techniques for

92 75 London (Imperial), *Soil mechanics*, MSc/DIC 1 yr f t study of physical and mechanical proper

92 76

ogy earthquake resistant design of foundations dynamics soil properties foundations on soils stability of soil and rock slopes embankment dams analysis of strong motion data earthquake resistant design of slopes and embankment dams seepage consolidation earth pressure theories and measurement of shear strength and deformation lab and field techniques rock strength and failure written exams and dissertation (SERC) Contact Dr M Baldwin

92 77

92 78

steel technology fracture mechanics stability plasticity in steel structures principles of structural design indeterminate analysis plated structures dynamics and loading numerical methods structural reliability and limit state design steel section behaviour and design connections

92 79

92 80 London (Queen Mary), *Geomaterials* MSc 1 yr f t (deg in geol geochem eng geol or related science req) study of natural materials used in construction industry specialist theoretical and

92 81

92 82

practical work in gen structural theory steel structures [illegible] plus [illegible] from

Engineering

project management, finite elements, properties of materials; assessment by exam and dissertation. Contact Professor PA Thompson or Dr TE Taylor

92:83 **Newcastle,** *Engineering hydrology,* MSc
92:84 **Newcastle,** *Hydraulic engineering,* MSc
92:85 **Newcastle,** *Soil mechanics and foundation engineering,* MSc
92:86 **Newcastle,** *Structural engineering,* MSc
92:87 **Nottingham,** *Engineering surveying,* MSc
92:88 **Poly of Wales,** *Civil engineering,* MSc (CNAA)
92:89 **Sheffield,** *Civil and structural engineering,* MEng
92:90 **Southampton,** *Advanced structural engineering,* MSc/Diploma
92:91 **Southampton,** *Irrigation engineering,* MSc/Diploma
92:92 **Southampton,** *Soil conservation and land reclamation engineering,* MSc/DUS
92:93 **Strathclyde,** *Hydraulics, hydrology and coastal dynamics,* MSc/Diploma
92:94 **Strathclyde,** *Structural engineering,* MSc/Diploma
92:95 **Surrey,** *Bridge engineering,* MSc/Diploma

92:96 **Surrey,** *Geotechnical engineering,* MSc/Diploma, 2 yrs p-t; intended for practising civil engineers and eng geologists from consultancies, contracting and local authorities; *areas of study inc:* eng properties of soils, critical state soil mechanics, site investigation, foundation eng, slope and embankment stability, eng geol and rock mechanics, adv lab testing techniques with emphasis on application to practical problems, seepage and groundwater control, design and construction of earth dams, field instrumentation, earth retaining structures, computer soln of geotechnical problems, geotechnical processes, soil mechanics aspects of motorway and airfield construction; lab work, project and dissertation. **Contact** Dr CRI Clayton

92:97 **Surrey,** *Structural engineering,* MSc/Diploma, 1c yr f-t: 2 yrs p-t; intended mainly for practising civil engineers, also useful for research workers; aims to help engineers to apply latest advances in knowledge to design and construction of structures; *areas of study inc:* space structures; structural design; computer methods; structural mechanics; stability of structures; dynamics of structures; matrix methods; foundation eng; exptl stress analysis; structural materials; adv finite element methods; formex methods; lab and project work. **Contact** Dr H Nooshin

92:98 **Wales (Cardiff),** *Civil and structural engineering,* MSc, 1 yr f-t: 3 yrs p-t; adv training in theory and practice of civil eng; *course content:* inc finite element method, adv mechanics, analysis and design of steel structures, limit state design of concrete, concrete technology, concrete and masonry structures, geotechnical eng and water resources; exam, project, dissertation. **Contact** Dr HR Thomas

92:99 **Wales (Swansea),** *Civil engineering,* MSc, 1c yr f-t; computational modelling in finite elements and eng mechanics; 6 mth course work followed by 6 mth research project; course work ranges from finite element basics to computer graphics with coverage of mechanics of structures, fls and soils, and emphasis on computer aided eng; suitable for good hons graduates in eng or applied mathematics. **Contact** Dr DJ Naylor

Certificates and diplomas

92:100 **Bolton IHE,** *Geotechnics,* Diploma (CNAA)
92:101 **Bradford,** *Civil and structural engineering,* Diploma
92:102 **City,** *Engineering management,* Diploma
92:103 **Dundee,** *Structural engineering,* Diploma
92:104 **Edinburgh,** *Civil engineering,* Diploma
92:105 **Glasgow,** *Civil engineering,* Diploma
92:106 **Middlesex Poly,** *Geotechnics,* Diploma (CNAA)
92:107 **Newcastle,** *Engineering hydrology,* Diploma
2:108 **Newcastle,** *Structural engineering,* Diploma/Certificate
2:109 **NE London Poly,** *Civil engineering,* Diploma
2:110 **Paisley CT,** *Engineering design of buildings,* Diploma
92:111 **Wales (Swansea),** *Civil engineering,* Certificate

project management, finite elements, properties of materials; assessment by exam and dissertation. Contact Professor PA Thompson or Dr TE Taylor

92:83 **Newcastle,** *Engineering hydrology*, MSc
92:84 **Newcastle,** *Hydraulic engineering*, MSc
92:85 **Newcastle,** *Soil mechanics and foundation engineering*, MSc
92:86 **Newcastle,** *Structural engineering*, MSc
92:87 **Nottingham,** *Engineering surveying*, MSc
92:88 **Poly of Wales,** *Civil engineering*, MSc (CNAA)
92:89 **Sheffield,** *Civil and structural engineering*, MEng
92:90 **Southampton,** *Advanced structural engineering*, MSc/Diploma
92:91 **Southampton,** *Irrigation engineering*, MSc/Diploma
92:92 **Southampton,** *Soil conservation and land reclamation engineering*, MSc/DUS
92:93 **Strathclyde,** *Hydraulics, hydrology and coastal dynamics*, MSc/Diploma
92:94 **Strathclyde,** *Structural engineering*, MSc/Diploma
92:95 **Surrey,** *Bridge engineering*, MSc/Diploma
92:96 **Surrey,** *Geotechnical engineering*, MSc/Diploma, 2 yrs p-t; intended for practising civil engineers and eng geologists from consultancies, contracting and local authorities; *areas of study inc:* eng properties of soils, critical state soil mechanics, site investigation, foundation eng, slope and embankment stability, eng geol and rock mechanics, adv lab testing techniques with emphasis on application to practical problems, seepage and groundwater control, design and construction of earth dams, field instrumentation, earth retaining structures, computer soln of geotechnical problems, geotechnical processes, soil mechanics aspects of motorway and airfield construction; lab work, project and dissertation. Contact Dr CRI Clayton
92:97 **Surrey,** *Structural engineering*, MSc/Diploma, 1c yr f-t; 2 yrs p-t; intended mainly for practising civil engineers, also useful for research workers; aims to help engineers to apply latest advances in knowledge to design and construction of structures; *areas of study inc:* space structures; structural design; computer methods; structural mechanics; stability of structures; dynamics of structures; matrix methods, foundation eng; exptl stress analysis; structural materials; adv finite element methods, formex methods; lab and project work. Contact Dr H Nooshin
92:98 **Wales (Cardiff),** *Civil and structural engineering*, MSc, 1 yr f-t; 3 yrs p-t; adv training in theory and practice of civil eng, *course content* inc finite element method, adv mechanics, analysis and design of steel structures, limit state design of concrete, concrete technology, concrete and masonry structures, geotechnical eng and water resources; exam, project, dissertation. Contact Dr HR Thomas
92:99 **Wales (Swansea),** *Civil engineering*, MSc, 1c yr f-t; computational modelling in finite elements and eng mechanics, 6 mth course work followed by 6 mth research project; course work ranges from finite element basics to computer graphics with coverage of mechanics of structures, fls and soils, and emphasis on computer aided eng, suitable for good hons graduates in eng or applied mathematics. Contact Dr DJ Naylor

Certificates and diplomas

92:100 **Bolton IHE,** *Geotechnics*, Diploma (CNAA)
92:101 **Bradford,** *Civil and structural engineering*, Diploma
92:102 **City,** *Engineering management*, Diploma
92:103 **Dundee,** *Structural engineering*, Diploma
92:104 **Edinburgh,** *Civil engineering*, Diploma
92:105 **Glasgow,** *Civil engineering*, Diploma
92:106 **Middlesex Poly,** *Geotechnics*, Diploma (CNAA)
92:107 **Newcastle,** *Engineering hydrology*, Diploma
2:108 **Newcastle,** *Structural engineering*, Diploma Certificate
2:109 **NE London Poly,** *Civil engineering*, Diploma
2:110 **Paisley CT,** *Engineering design of buildings*, Diploma
92:111 **Wales (Swansea),** *Civil engineering*, Certificate

93 Engineering: control and systems

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

93:1 **Bath,** *Electrical engineering,* MSc/PhD

93:2 **Birmingham,** *Electronic and electrical engineering,* MSc/PhD

93:3 **Bradford,** *Control engineering,* MPhil/PhD

93:4 **Brighton Poly,** *Computing and cybernetics,* MPhil/PhD (CNAA)

93:5 **Brunel,** *Engineering,* MPhil/PhD

93:6 **City,** *Electrical engineering and applied physics,* MPhil/PhD

93:7 **City,** *Systems science,* MPhil/PhD; supervision available, current research inc: *systems science programme:* fundamental studies and gen systems (epistemology and ontology of systems science, structural modelling, systems methodologies for problem solving), measurement and information in medicine (math modelling, clinical measurement, control system based computer models for medical diagnosis, decision making and patient management, expert systems in medicine), analysis of political systems (dynamics of conflict, policy research, political ideology and communications), rehabilitation systems (policy analysis, modelling of effects of disabilities on employment, computer-based aids); *systems eng and management programme:* systems design (whole-life design methodology, cost-effectiveness evaluation, technology assessment, system reliability, safety and logistics), decision support systems (risk analysis and eng, structural modelling, multiple criteria with conflict, computer-aided interactive management), technological change (policy analysis, portfolio analysis, dynamics of technological change, techno-econ forecasts). **Contact** Professor ER Carson

93:8 **Coventry (Lanchester) Poly,** *Systems and control,* MPhil/PhD (CNAA)

93:9 **Durham,** *Engineering science,* MSc/PhD

93:10 **Huddersfield Poly,** *Systems,* MPhil/PhD (CNAA)

93:11 **Lancaster,** *Systems,* MPhil/PhD

93:12 **Leicester,** *Control and computer engineering,* MPhil/PhD

93:13 **Liverpool Poly,** *Electrical and control engineering,* MPhil/PhD (CNAA)

93:14 **London (Imperial),** *Control systems,* MPhil/PhD; supervision available in Dept of Electrical Eng, research interests in following fields: development of control theory, industrial and econ applications, CAD and graphics, computer control, adaptive control; current research topics inc: stochastic control and filtering, optimisation and optimal control, linear system theory, large-scale systems, industrial control, economics, CAD of control systems, communications networks. **Contact** Professor MHA Davis

93:15 **Manchester,** *Control and systems engineering,* MSc/PhD

93:16 **Manchester (UMIST),** *Control systems,* MSc/PhD; supervision available, collaboration betwn Control Systems Centre and Depts of Chem, Electrical and Mechanical Eng, Metallurgy, Maths, Computation, Building, and Polymer and Fibre Science; major research topics inc: multivariable control theory, complex systems theory, interactive computer-aided analysis, design and on-line simulation of control systems, identification, adaptive and self-tuning control, computer control, machine tool control and robotics, servo systems, process control, control of automotive engines, boiler systems, steelmaking, lift system control and simulation; facilities inc labs for teaching and research on control systems and components, assoc depts have labs and eqpt for work on relevant control problems (eg several pilot plants under computer control, paper-making machine, labs for automotive power plant and machine tool and robotics studies). **Contact** Dr PA Cook

93:17 **Open,** *Systems,* BPhil/MPhil/PhD

93:18 **Reading,** *Cybernetics,* MPhil/PhD; supervision available, research interests: acquisition of information: instrument physics and chem, fundamental limits to measurement, instrumentation and measurement; *transmission and storage of information:* information and coding theory, analog-

digital conversion magnetic recording telecommunications *transformation of information*

[illegible]

Dr MJ Usher (Course Tutor)

93 19 **Salford,** *Electronic and electrical engineering,* MSc/PhD
93 20 **Sheffield,** *Control engineering* MEng/MScTech/PhD
93 21 **Sheffield City Poly,** *Electrical and electronic engineering* MPhil/PhD (CNAA)
93 22 **Southampton,** *Electronics and information engineering,* MPhil/PhD
93 23 **Southampton,** *Mechanical engineering,* MPhil/PhD
93 24 **South Bank Poly,** *Electrical and electronic engineering,* MPhil/PhD (CNAA)
93 25 **Strathclyde,** *Electronic and electrical engineering* MSc/PhD
93 26 **Sunderland Poly,** *Electrical, electronic and control engineering,* MPhil/PhD (CNAA)
93 27 **Surrey,** *Electronic and electrical engineering,* MPhil/PhD
93 28 **Surrey,** *Mechanical engineering* MPhil/PhD
93 29 **Sussex,** *Control and electrical engineering,* MPhil/DPhil
93 30 **Teesside Poly,** *Electrical, instrumentation and control engineering* MPhil PhD (CNAA)
93 31 [illegible]
93 32 [illegible]
93 33 [illegible]

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

93 34 **Bradford,** *Control engineering,* MSc
93 35 **Brighton Poly,** *Information systems,* MSc
93 36 **Brunel,** *Digital systems,* MSc/Diploma
93 37 **Brunel,** *Intelligent systems,* MSc
93 38 [illegible]
93 39 [illegible]
93 40 [illegible]
93 41 [illegible]
93 42 [illegible]
93 43 [illegible]
93 44 [illegible]
93 45 [illegible]
93 46 [illegible]
93 47 **Hatfield Poly,** *Integrated circuit and system design* MSc/Diploma (CNAA)
93 48 [illegible]

filtering digital signal processing incremental computing stochastic systems structured programming algorithm development data management system software computer graphics dissertation for MSc Contact Postgraduate Tutor

93 49 **Lancaster,** *Information management* MA
93 50 **Lancaster,** *Systems in management,* MA
93 51 **London (Imperial),** *Control systems* MSc/DIC 1c yr f t *syllabus mod deterministic control theory* state space analysis of linear systems optimal control and stability algorithms for optimal control *mod stochastic filtering and control theory* probability and stochastic processes filtering and control of linear stochastic processes stats and identification of linear dynamical systems

classical control: classical control theory, sampled data and nonlinear systems; *computational techniques:* numerical methods and algorithms for CAD, function optimisation; *computing and computer control:* software for on-line control, hardware for on-line control, control applications of microprocessors; *control system design:* design of linear multivariable control systems; *modelling:* modelling and simulation of dynamical systems; optional research courses; coursework assessment, exam, dissertation (SERC). **Contact** Professor MHA Davis

93:52 Loughborough, ***Mathematics of modern control systems,*** MSc

93:53 Manchester, ***Systems design,*** MSc

93:54 Manchester (UMIST), ***Systems and control,*** MSc/Diploma, 1 yr f-t; organised by Control Systems Centre in collaboration with other depts; *course inc:* linear systems analysis, probability theory, modelling, classical and sampled-data control, nonlinear dynamical systems, simulation for control, optimisation and numerical analysis, design criteria, multivariable control, system identification, complex systems, estimation and filtering; *sp subjs from:* robotics and machine tool control, human factors in control systems, process control systems, self tuning control, control of propulsion systems, learning systems (SERC). **Contact** Dr PA Cook

93:55 Middlesex Poly, ***Integrated circuit and system design,*** MSc/Diploma (CNAA)

93:56 Newcastle, ***Applied control engineering,*** MSc

93:57 NE London Poly, ***Engineering of dynamic systems,*** MSc (CNAA)

93:58 Portsmouth Poly, ***Control technology,*** MSc/Diploma (CNAA)

93:59 Salford, ***Electronic control engineering,*** MSc/Diploma

93:60 Sheffield, ***Control systems/information technology,*** MEng

93:61 Strathclyde, ***Digital systems,*** MSc

93:62 Sunderland Poly, ***Control engineering and computer systems,*** MSc/Diploma (CNAA)

93:63 Surrey, ***Systems engineering,*** MSc/Diploma

93:64 Wales (UWIST), ***Systems engineering,*** MEng

93:65 Warwick, ***Manufacturing systems engineering,*** MSc *See page 446*

Certificates and diplomas

93:66 Poly of Central London, ***Electronics and computer technology,*** Diploma

Addresses of institutions

are on pages 479–508

94 Engineering: electrical and electronic

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

94:1 **Aston,** *Electrical and electronic engineering,* MPhil/PhD

94:2 **Bath,** *Electrical engineering,* MSc/PhD; supervision available, current research activities inc: *electronics gp:* optical electronics; microwaves and millimetre waves; land mobile radio; multiplexing technology; radio transmitters; digital signal processing; speech processing; digital logic design; *power and control gp:* ground transport systems; power electronics and machine control; studies of power system stability; disc machines; mod control techniques; power generation, transmission and distribution systems; transistor commutated motors; medical electronics; microprocessor systems; computation of e-m fields. **Contact** JKM MacCormac

94:3 **Belfast,** *Electrical and electronic engineering,* MSc/PhD

94:4 **Birmingham,** *Electronic and electrical engineering,* MSc/PhD

94:5 **Birmingham Poly,** *Electrical engineering,* MPhil/PhD (CNAA)

94:6 **Bradford,** *Electrical and electronic engineering,* MPhil/PhD

94:7 **Brighton Poly,** *Electrical and electronic engineering,* MPhil/PhD (CNAA)

94:8 **Bristol,** *Electrical and electronic engineering,* MSc/PhD

94:9 **City,** *Electrical engineering and applied physics,* MPhil/PhD; supervision available, current research inc: *control eng:* on-line computer control, mathematical modelling and parameter estimation of industrial processes: hierarchical control of large scale systems; control of large scale production scheduling systems; integrated system optimisation and parameter estimation; modelling and control of robot manipulators; multivariable control theory; *measurement and instrumentation:* instrumentation using pattern recognition and signal image processing, math modelling and CAD of instruments, ultrasonic instrumentation, optical instrumentation, design research and fundamental studies, electrical metrology; *information eng:* digital signal processing and digital-filtering; microprocessors, software eng; software development methods and tools; theory of pseudorandom signals; digital communications and communications on local-area computer networks; optimal routing of information flows; *measurement and information in medicine:* model-based measurement for estimation of physiol and clinical parameters, math modelling of physiol systems, decision making and patient management, interactive models for clinical application; *electrical and electronic eng:* high coltage eng, electromagnetic compatibility studies, electrical power and energy systems; *applied physics:* materials analysis, molecular medicine. **Contact** Dr KTV Grattan, Senior Tutor, Research

94:10 **Coventry (Lanchester) Poly,** *Electrical and electronic engineering,* MPhil/PhD (CNAA)

94:11 **Cranfield,** *Molecular electronics,* MSc/PhD

94:12 **Dundee,** *Electrical engineering and electronics,* MSc/PhD

94:13 **Durham,** *Applied physics and electronics,* MSc/PhD

94:14 **Durham,** *Engineering science,* MSc/PhD

94:15 **Edinburgh,** *Electrical engineering,* MPhil/PhD

94:16 **Essex,** *Electronic engineering,* MSc/MPhil/PhD

94:17 **Essex IHE,** *Telecommunication systems,* MPhil/PhD (CNAA)

94:18 **Glasgow,** *Electrical engineering,* MSc/PhD; supervision available; *areas of research inc:* integrated optical devices and systems; very high resolution electron beam and x-ray lithography; molecular beam epitaxy of III-V semiconductor cpds; development of improved governors for hydro-electric generators; microprocessors for power system control and simulation; distributed microprocessor organisations; efficiency of hydraulic machines by thermometric method; pattern recognition applied to analysis of pulmonary sounds and to non-destructive testing; physiol system identification; helicopter system identification; multivariable techniques for helicopter flight control; semiconductor device modelling; low dimensional structures, quantum wells and superlattices;

analogue VLSI systems CAD techniques for analysis design and optimisation of switched capacitor and continuous time networks bio-electronics cellular automata Contact Professor DJ Murray Smith

94 19 Heriot Watt, *Electrical and electronic engineering*, MSc/PhD

94 20 Huddersfield Poly, *Electrical and electronic engineering* MPhil/PhD (CNAA)

94 21 Hull, *Electronic engineering*, MSc/PhD supervision available major interest in robot research specialities inc vision guided assembly multiprocessor sensory systems adv gripper design etc other major research areas VLSI and CAD microwave and HF communications signal processing and image analysis electromagnetics control and instrumentation facilities inc VAX 750 computer SERC interactive graphics terminals DEC and Hewlett Packard minicomputers microcomputers and microprocessor development systems Contact Professor A Pugh

94 22 Kent, *Electronics* MSc/PhD *See page 420*

94 23 Kingston Poly, *Electrical and electronic engineering*, MPhil/PhD (CNAA)

94 24 Lancashire Poly, *Electrical and electronic engineering* MPhil/PhD (CNAA)

94 25 Leeds, *Electrical and electronic engineering*, MPhil/PhD

94 26 Leicester, *Electrical and electronic engineering* MPhil/PhD

94 27 Leicester Poly, *Electronic and electrical engineering*, MPhil/PhD (CNAA)

94 28 Liverpool, *Electrical engineering and electronics* MEng/PhD supervision available range of research topics digital signal processing radio communications microprocessor applications robotics microelectronics solid state devices and circuits gas discharges and arc research power systems and machines Contact Professor JD Parsons

94 29 [illegible]

94 30 [illegible]

power systems interactive use of computers for power system analysis *e m fields* application of e m theory to electrical machines, *eng applied to medicine* analysis of biol signals for purposes of clinical and physiol research *information eng* switched-capacitor filter theory and design

[illegible]

interpolation and decimation *solid state electronics* semiconductors in amorphous and polycrystalline forms Contact Professor DQ Mayne

94 31 London (KQC), *Electronic and electrical engineering*, MPhil/PhD supervision available research interests inc physical electronics optical fibre sensors non linear optics optical signal processing electron physics numerical investigations of noise in crossed field devices high freq noise as stochastic problem gyrotron and cyclotron resonance devices quantum electronics photon stats applications solid state optical detectors and signal processing devices power semiconductor devices fabrication of MIS devices in silicon indium phosphide and gallium arsenide using

[illegible]

and software for minicomputer and microprocessor systems computer input and output devices *graphical systems cybernetics definition of invariance and generalised homeostasis in cybernetic* systems notion of time in cybernetics problems in design of cybernetic machines for retrieval of useful information from database created from textual input Contact Professor AJ Rogers

94 32 London (Queen Mary), *Electrical and electronic engineering* MPhil/PhD

94 33 London (UC), *Electronic and electrical engineering* MPhil PhD supervision available in following research fields VLSI design digital signal processing reliability and fault tolerant computing opto-electronics inc fibre optic components and instrumentation integrated optics and digital optics for optical communication systems materials growth and fabrication technology inc thin film work and laser processing for microelectronics bioelectronics inc biosensors and control systems for biotechnology acoustic and optical microscopy for non-destructive testing and medical applications microwave and radar techniques inc antennas phased array antennas and microwave components microwave and millimetre atm propagation computer modelling of optical and acoustic fields robotics Contact Dr G Parry

94:34 Loughborough, *Electronic and electrical engineering,* MSc/MTech/PhD

94:35 Manchester, *Electrical engineering,* MSc/PhD; supervision available for research, interests inc: *electronics and microelectronics:* electron-beam lithography for microcircuit fabrication, uncommitted logic array, customisation and CAD, applications of microprocessors, radar data processing, magnetic bubble and magneto-optic memory devices, magneto-resistive sensors; *digital communications:* error-control coding systems, modulation and detection methods, spread spectrum techniques, digital signal processing, fibre-optic systems; *physical electronics:* molecular-beam epitaxy of cpd semiconductors, vapour-phase epitaxy of II-VI cpds for light-emitting diodes, photoluminescence and electrochem profiling studies; *measurement:* fibre-optic and piezo-electric transducers and instrumentation systems; *electrical machines:* linear synchronous motors and magnetic suspensions for transport systems, extremely high-speed motors, stabilisation schemes for variable-reluctance and hybrid permanent-magnet stepping motors; *power systems and high voltage eng:* transient performance of large interconnected networks under fault conditions, digital techniques for over-current protection; *control and systems eng:* see Engineering: control and systems. **Contact** Dr W Clegg

94:36 Manchester (UMIST), *Electrical engineering and electronics,* MSc/PhD

94:37 Manchester Poly, *Electrical and electronic engineering,* MPhil/PhD (CNAA)

94:38 Newcastle, *Electrical and electronic engineering,* MSc/PhD; supervision available, research interests inc: very large-scale integration, development of CAD tools for VLSI design; design of VLSI systems; *communication systems:* operation, analysis and synthesis of microprocessor based systems and applications in eng; optical measurements and communication devices; *microwave power studies:* dielectric power transmission, high power microwave components; *control systems:* data sampling control systems, design of digital servomechanisms inc logic and motor drive circuits; *electrical machines:* determination of machine parameters by freq response and other methods; *h-v dielectric studies:* influence of size on dielectric properties of electrical insulation and low temp h-v pulse generation and monitoring; *power systems:* transient and dynamic behaviour of synchronous power systems inc single and multi-machine studies into effects of generator parameters; *electro-medical.* **Contact** Dr G Russell

94:39 Newcastle Poly, *Electrical engineering and physical electronics,* MPhil/PhD (CNAA)

94:40 NE London Poly, *Electrical and electronic engineering,* MPhil/PhD (CNAA)

94:41 N Staffs Poly, *Electrical and electronic engineering,* MPhil/PhD (CNAA); supervision available for research; recent interests inc: medical electronic instrumentation, digital techniques applied to electromechanical systems, microprocessors and applications, computer graphics, voltage and current surge measurements, telecommunications systems, power systems eng, high voltage DC transmission, control systems, semi-custom integrated circuit design; specific projects in progress: design of control strategies for glass conditioning, design of uncommitted logic array-based digital signal processors, design of intelligent serial data highway interface, thoracic impedance variability and defibrilator design, speech processing strategies for cochlear stimulation, design of high voltage DC power systems, application of series and shunt reactive compensation in AC railway systems, prediction and control of power system harmonics, CAD of protective schemes for industrial power systems. **Contact** KM Abbott

94:42 Nottingham, *Electrical and electronic engineering,* MPhil/PhD

94:43 Open, *Electronics,* BPhil/MPhil/PhD

94:44 Paisley CT, *Electrical and electronic engineering,* MPhil/PhD (CNAA)

94:45 Plymouth Poly, *Communication engineering,* MPhil/PhD (CNAA); supervision available for research; interests in satellite communications, terrestrial communications, digital and analogue signal processing, information theory. **Contact** Academic Registrar

94:46 Plymouth Poly, *Electrical and electronic engineering,* MPhil/PhD (CNAA); supervision available for research; research interests inc: micromagnetics, design of magnetic recording heads, control system eng, power electronics, electric contact phenomena, microelectronic control, software eng, image understanding, VLSI design. **Contact** Academic Registrar

94:47 Poly of North London, *Electronic and communications engineering,* MPhil/PhD (CNAA)

94:48 Poly of Wales, *Electrical and electronic engineering,* MPhil/PhD (CNAA); supervision available, research interests: assets of computational methods as applied to control eng; development of new methods of instrumentation esp in medical field; microprocessor applications; power electronics systems; CAD; battery-driven electric vehicle control; medical electronics, thermal performance of silicon circuits, pattern recognition and vision systems, speech synthesis/analysis, mobile radio. **Contact** PA Wittins

94:49 Portsmouth Poly, *Electrical and electronic engineering,* MPhil/PhD (CNAA)

94:50 Reading, *Engineering,* MPhil/PhD

94 51 **Salford,** *Electronic and electrical engineering*, MSc/PhD
94 52 **Sheffield,** *Electronic and electrical engineering* MEng/MScTech/PhD, supervision available in following areas *antennas microwaves ultrasound image processing* SERC grant for microwave and millimetre wave imaging image enhancement and display holographic systems antennas

D Howe
94 53 **Sheffield City Poly,** *Electrical and electronic engineering* MPhil/PhD (CNAA)
94 54 **Southampton,** *Electrical engineering* MPhil/PhD
94 55 **Southampton,** *Electronics and information engineering* MPhil/PhD
94 56
94 57
94 58 NAA)
94 59 **Surrey,** *Electronic and electrical engineering*, [illegible]
94 60 **Sussex,** *Control and electrical engineering*, MPhil/DPhil
94 61 **Sussex.** *Electronic engineering and computer science*, MPhil DPhil *See page 422*
94 62
94 63
94 64
94 65
94 66
94 67
94 68
94 69
94 70
94 71
94 72
94 73 **Warwick,** *Electronics* MPhil/PhD
94 74 **West Glamorgan IHE (Swansea),** *Elctronic engineering*, MPhil/PhD (CNAA)
94 75 **Wolverhampton Poly,** *Electrical and electronic engineering*, MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

94 76
94 77 *See page 418*
94 78
94 79 **Bradford,** *Microprocessor engineering*, MSc/Diploma
94 80
94 81
94 82
94 83 **Brighton Poly,** *Microprocessor technology and applications*, MSc/Diploma (CNAA) *See page 418*
94 84 **Brunel,** *Microelectronic system design*, MSc/Diploma
94 85 **City,** *Information engineering*, MSc/Diploma

94:86 Coventry (Lanchester) Poly, *Electronic graphics,* MA/Diploma (CNAA)

94:87 Cranfield, *Electronic engineering,* MSc

94:88 Cranfield, *Electronics (digital systems),* MSc

94:89 Cranfield, *Industrial electrical systems,* MSc

94:90 Cranfield, *Telecommunications,* MSc

94:91 Durham, *Electronics,* MSc, 13 mths f-t; training in integrated circuit design for students who are unable to meet entry reqs of MEng below through lack of industrial sponsorship or less approp 1st deg; *term 1:* coursework and practical projects designed to provide satisfactory entry to MEng coursework from Jan; *terms 2 and 3:* as MEng, final project may be undertaken in univ or in govt or industrial lab (SERC). **Contact** Dr RK Taylor

94:92 Durham, *Engineering (microelectronics),* MEng, 13 mths f-t; option in microelectronics within MEng, course centred on integrated circuit design; *compulsory:* LSI circuits and systems, digital systems, integrated circuit design techniques, management studies; *options from:* computer control of industrial processes, electronic materials technology, electronic processes in device semiconductors, microprocessor systems, LSI in communications, robotics, production control and manufacturing systems, adv management studies; design activity incorporates interactive CAD design of MSI or LSI n-MOS or CMOS chip which is manufactured and tested; 2 periods in industrial projects; see also Engineering: general (SERC). **Contact** Dr RK Taylor

94:93 Edinburgh, *Design and manufacture of microelectronic systems,* MSc/Diploma

94:94 Essex, *Electrical engineering,* MSc

94:95 Essex, *Lasers and their applications,* MSc/Diploma, 9 mths f-t (hons deg in physics or related subj inc eng req); coursework, lab work, 5 1-week laser workshop courses with visiting specialists, visits to govt and industrial labs; assessment of coursework and exams (SERC). **Contact** Dr P Townsend

94:96 Essex, *Telecommunication systems,* MSc, 9 mths f-t: 2 yrs p-t (for industrially-based engineers) or 1 yr sandwich with project in industry, univ research lab or at ENST/ESIEE (Paris) or Technical Univ of Karlsruhe; training for telecommunications industry or operating organisations or foundation deg for research work; all aspects of mod telecommunications systems design; *syllabus (core courses):* signals and systems, transmission systems, 'C' programming, probability, intro to real time systems, principles of switching systems, radio and satellite communications, digital information transmission; plus options in radio propagation, optical communication, mobile radio communication systems, digital signal processing, secure data communications, queues and queueing networks, speech communication systems, visual communication systems, CAD for VLSI; communications and software labs, project, seminars (SERC). **Contact** Derek Dawes, Admissions Officer

94:97 Essex, *Telematics,* MSc

94:98 Glasgow, *Optical information technology,* MSc/Diploma, 1 yr f-t: 2c yrs p-t (MSc), 1 yr f-t (Diploma) (hons deg in science or eng preferred); *course content:* physical and optical electronics, communication theory, optical transmission systems, integrated optics, optical signal processing; plus for MSc industrially-orientated research project. **Contact** Dr JM Arnold

94:99 Heriot-Watt, *Electrical power engineering,* MSc/Diploma

94:100 Kent, *Electronics,* MSc/Diploma

94:101 Liverpool, *Microelectronics systems and telecommunications,* MEng, 1 yr f-t or 2 yr p-t; course inc adv studies in microprocessor and digital electronics, telecommunications, integrated circuit design and related topics; projects normally assoc with these areas (studentships available, also salaried posts from industry for suitable candidates, covering period of course and after). **Contact** Professor JD Parsons

94:102 London (Imperial), *Communication engineering,* MSc/DIC, 1 yr f-t; *course content:* communication and switching systems, software eng, probability theory and stochastic processes, principles of communication systems, intro to analogue and digital signal processing; *choice from: communication systems:* software eng and real-time systems, switching systems, digital communication systems, traffic eng and queueing, communication networks and ISDN, optical communication, propagation techniques; *digital communication and signal processing:* software eng and real-time systems, adv digital communications, digital communication systems, coding theory, adv filtering and signal processing, detection and estimation theory, propagation techniques; assessment of coursework, dissertation (SERC). **Contact** Dr RA King

94:103 London (Imperial), *Electrical engineering,* MSc; joint course, see London (KQC); specialised teaching at London (Imperial) in electrical power systems (transient stability and modelling techniques for power systems, electricity economics and power system planning, system overvoltages and transmission design). **Contact** Dr BJ Cory

94:104 **London (KQC),** *Digital electronics*, MSc
94:105 **London (KQC),** *Electrical engineering*, MSc
94:106 **London (Queen Mary),** *Electrical engineering*, MSc
94·107 **London (UC),** *Electrical engineering*, MSc
94:108 **Loughborough,** *Digital communication systems*, MSc, 1c yr f t max 4 yrs p-t (hons deg or equiv qual in electrical eng electronic eng or physics req) aims to give thorough knowledge of basic principles of different systems and techniques and ability to design and develop next generation of digital communication systems, course concerned with theory and techniques involved in transmission of digital data over channels that produce both noise and distortion digital coding of [illegible]

94.109 [illegible]

normally inc electronic circuit techniques and digital electronics device physics and characteristics, control theory, instrumentation and analysis of switching circuits AC DC conversion AC load control and HVDC transmission uses of forced commutation electrical machine control project Contact Dr CD Manning
94·110 **Manchester,** *Instrument design and application*, MSc 1 2c yrs f t 2 yrs p-t min (hons deg or equiv in a science or technology subj req), interdisciplinary training for career in eg aerospace instrumentation, process instrumentation biomedical instrumentation instrument production *course content* design of transducers and their assoc electronic circuits application of computers in instrumentation, multivariable measurement analysis noise reduction and signal recovery elements of instruments, metrology, display devices, design and research projects exam design project and research dissertation (SERC) Contact Dr W Clegg
94:111 [illegible]
94:112 [illegible]
94·113 [illegible]
94:114 [illegible]
94:115 [illegible]
94:116 **Manchester (UMIST),** *Microprocessor engineering and power electronic control*, MSc/Diploma
94·117 **Manchester (UMIST),** *Power systems engineering*, MSc/Diploma
94:118 **Manchester Poly,** *Physical measurement techniques and instrumentation*, MSc (CNAA)
94 119 **Middlesex Poly,** *Microelectronics engineering*, MSc/Diploma (CNAA)
94.120 **Nottingham,** *Modern electronics*, MSc
94.121 **Oxford,** *Science and application of electric plasmas*, MSc
94.122 **Poly of Central London,** *Digital systems and instrumentation*, MSc/Diploma (CNAA)
94:123 **Poly of Central London,** *Microelectronics and communication systems*, MSc (CNAA)
94:124 **Poly of Central London,** *Software engineering*, MSc (CNAA)
94:125 **Portsmouth Poly,** *Signal processing*,MSc/Diploma (CNAA)
94:126 **Salford,** *Electronic control engineering*, MSc/Diploma
94.127 **Southampton,** *Electrochemical science*, MSc
94:128 **Southampton,** *Microelectronics systems design*, MSc *See page 420*
94:129 **South Bank Poly,** *Information systems engineering*, MSc/Diploma (CNAA)
94·130 **Stirling,** *Software engineering*, MSc
94·131 **Strathclyde,** *Electrical power engineering*, MSc
94.132 **Surrey,** *Microelectronics and automatic control*, MSc/Diploma
94.133 **Surrey,** *Microelectronics, microprocessor and computer engineering*, MSc/Diploma
94.134 **Surrey,** *Satellite communication engineering*, MSc
94.135 **Wales (Bangor),** *Ocean electronics*, MSc/Diploma
94.136 **Wales (Cardiff),** *Electrical and electronic engineering, computer systems*, MSc/Diploma

Certificates and diplomas

94:137 **Belfast,** *Information engineering,* Diploma
94:138 **Birmingham Poly,** *Microelectronics and computer technology,* Diploma
94:139 **Bradford,** *Electrical and electronic engineering,* Diploma
94:140 **Bradford,** *Electrical power systems,* Diploma
94:141 **Bradford,** *Electronics and communications engineering,* Diploma
94:142 **Dundee,** *Electrical engineering,* Diploma
94:143 **Dundee,** *Electrical engineering and microcomputer systems,* Diploma
94:144 **Dundee,** *Electronic engineering,* Diploma
94:145 **Essex,** *Telecommunication systems management,* Diploma
94:146 **Glasgow,** *Electronics and electrical engineering,* Diploma
94:147 **Newcastle,** *Electrical power engineering,* Diploma/Certificate
94:148 **Poly of Wales,** *Design of microprocessor-based systems,* Diploma (CNAA)
94:149 **Robert Gordon's IT (Aberdeen),** *Offshore electronic systems,* Diploma (CNAA)
94:150 **Strathclyde,** *Electrical power engineering,* Diploma
94:151 **Ulster,** *Microelectronics and microcomputer applications,* Diploma

University College London

Department of Electronic and Electrical Engineering

PhD/MSc

The Department Electronics has flourished here since Fleming invented the diode valve in 1889 Now within a modern well-equipped building research continues at the frontiers of electronics Current research topics include microwave techniques antenna design fibre optics optoelectronics integrated optics ultrasonic and optical microscopy integrated circuit design and digital signal processing bioelectronics control and robotics electronic materials and computer modelling of fields

Support for research activities The research programmes in the department have attracted a wide range of support from SERC industry and various government agencies at a level in excess of one million pounds per year An increasing number of projects are carried out collaboratively with industry and with other universities This includes both UK based industries and European industries The major research programmes in the department are led by Professors D E N Davies FRS J E Midwinter FRS and J B Davies

Support for research students Most UK based students are supported by the SERC either on standard grants or on CASE awards with industry In almost all cases an additional financial top-up is provided by an industrial organisation linked to the project Other students UK and overseas receive support directly from industry or in the case of overseas students from their own governments A large fraction of our overseas students receive ORS awards

Technical facilities The department has well [illegible] recently been installed Computing facilities include various departmental based microcomputers systems a faculty based PRIME computer which is part of the SERC interactive computing facility The University of London has Amdahl and Cray computers

Publications Research students and staff publish approximately 50 papers each year Students are encouraged to attend conferences and frequently present papers at major national or international meetings

Social facilities UCL is a multi faculty college – the largest in the University of London The many clubs and societies reflect the interests of students in subjects as diverse as Engineering Egyptology and English history The college has its own theatre and sports facilities In addition the University of London Union facilities are a short distance away Beyond that there is London

Courses The department offers two MSc courses one on Microwaves and Modern Optics and the other on Information Technology (in conjunction with the Department of Computer Science) The Information Technology course is a conversion course and the entry requirement is a good honours degree in any branch of science or engineering except electronics or computer science

Application procedure For application form and further details please contact

Dr G Parry
Dept Electronic and Electrical Engineering
University College London
Torrington Place
London WC1E 7JE

Telephone 01 387 7050 ext 59?/572

UNIVERSITY OF KENT AT CANTERBURY

ELECTRONICS

MSc/PhD

Supervision available for research. Considerable cross-collaboration with industry in research on: antennas, digital communications (including optical fibres), computers (especially artificial intelligence, small computer architecture and distributed industrial computer control, VLSI and CAD); microwave devices and propagation, network theory, electron physics, radio astronomy, solid state electronics, medical electronics.

Further information The Director, Electronic Engineering Laboratories, University of Kent, Canterbury CT2 7NT.

University of Southampton

Department of Electronics and Computer Science



MSc in Electronics
MSc in Microelectronics Systems Design

Two intensive one-year, full-time SERC-approved IT courses, tailored to equip students with the combination of skills needed for modern electronic systems. The courses emphasise practical assignments, and include an extended project.

Applicants should normally have a 1st or 2nd hons degree in Electronics, Computer Science, or Maths or Physics with some Electronics, or a suitable good industrial background.

MPhil/PhD by research

Excellent research facilities are available in most areas of electronics.

For further details, write to Mr J G Smith (MSc Admissions) or Mr T R Bartlett (Research Admissions), Department of Electronics and Computer Science, The University, Southampton SO9 5NH.

UWIST

University of Wales

Postgraduate Courses One Year Full Time

MSc/DIPLOMA IN ELECTRONICS with specialisation in.
★ Digital Systems ★ Control Engineering
★ Medical Electronics ★ Communication, Radar and Navigational Aids

This course which is aimed at scientists and engineers whose first degree may not be in electronic engineering is broadly based initially with lectures in analogue and digital circuits and systems, network and field theory microprocessors and mathematics. The latter part of the course allows specialisation in a particular area of electronics. The last four months of the course are devoted to an experimental project.

Candidates should have a degree in engineering applied science science or mathematics. Suitable applicants holding qualifications deemed equivalent to graduation may be admitted under a two-year scheme of candidature

M ENG IN SYSTEMS ENGINEERING with specialisation in.
★ Automation and Robotics ★ Information Systems ★ Information Technology for Manufacture

A suitable combination of subject of study are chosen from the following computer and software engineering automatic test systems, robotics technology data system technology information systems, computer-aided process planning and quality control, computer-aided product design and manufacturing technology behavioural aspects of management information systems.

This course is supported by the SERC under the *Information Technology Initiative* and by the Manpower Services Commission under the TOPS scheme Candidates should have a good honours degree or equivalent in engineering applied science or mathematics.

Graduates successfully completing the MSc or MEng may be invited to undertake a research project leading to the Doctor of Philosophy (PhD) degree.

MSc/M Eng/PhD degrees by research

Applications are also welcomed from suitably qualified candidates interested in undertaking a post graduate research project leading to the M Eng MSc or PhD degrees. Applicants should have a good honours degree in science engineering or mathematics.

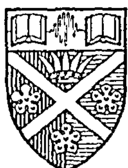
Research projects with comprehensive support facilities are available in.

Automation and Robotics
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Finite element applications
FMS
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Production control

Automated Visual Inspection
Biomedical electronics
Control Systems design
Digital Pulse Compression
Electronic instrumentation
Microprocessor applications
Microwave devices and Integrated circuits

Electronic transport in semiconductors
EHV transmission lines
High Voltage breakdown in gases
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Semiconductor injection lasers
Optoelectronics

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UNIVERSITY OF STRATHCLYDE

Department of Electronic and Electrical Engineering

Research projects available for PhD and MSc postgraduate studies in
- Design and microprocessor control of electrical machines
- High-voltage insulation, arcs and lightning
- Fundamental properties of insulating materials
- Electrical power system modelling and energy management
- Digital processing for radar signal and image analysis
- Ultrasonic imaging and NDT
- Theoretical analysis and design of industrial control systems
- Communication networks and teletraffic engineering
- Data transmission over dispersive or time variant channels
- Fibre optic sensors and signal processing and optical computers

Instructional postgraduate courses for MSc/Diploma are available in
- Electrical power engineering
- Information technology systems
- Business information technology systems

Further information from Prof B Culshaw, Department of Electronic and Electrical Engineering, University of Strathclyde, Royal College Building, Glasgow G1 1XW Tel. 041-552 4400 ext 2543

University College of Swansea

MSc/PhD in Electrical and Electronic Engineering

University College, Swansea, is a constituent part of the University of Wales, and is situated in parkland, on the coast road west of Swansea, part way to the picturesque village of Mumbles and close to the beautiful Gower Peninsula

An active research team is working in many areas including solid state microelectronic fabrication, modelling and simulation, microprocessor-based electronic instrumentation, high speed data conversion, speech synthesis and recognition, topics in communications, including navigational and mobile R/T facilities, power and medical electronics, and CAD for control systems

Projects are available in these and other areas, and various grants including SERC awards may be available to eligible applicants

Further information may be obtained from the
Postgraduate Admissions Adviser,
Electrical Engineering Department,
University of Wales, Swansea SA2 8PP

University of Sussex

MPhil/DPhil: Electronic, electrical, control and computer systems engineering

Opportunities exist for research in the following areas: computer-aided design and simulation of multivariable and nonlinear systems, identification and adaptive control, electromechanical systems and robotics, power electronics, direct frequency conversion, microprocessor control of electrical machines, magnetic suspension systems and their control, computer-aided VLSI design, artificial intelligence, data networks, display systems, multi-processor systems, medical applications of microelectronics, signal processing, control and biomechanics.

Further information from EEC/CS Subject Group Office, School of Engineering and Applied Sciences, University of Sussex, Falmer, Brighton BN1 9QT Telephone 0273 606755

List of chapter headings and numbers

on pages 42 and 43

95 Engineering: environmental and public health

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section

95.1 Aston, *Civil engineering and construction,* MPhil/PhD
95.2 Bath, *Architecture and building engineering,* MSc/PhD
95.3 [illegible]
95.4 [illegible]
95.5 [illegible]
95.6 [illegible]
95.7 [illegible]
95.8 Lancaster, *Environmental systems and analysis, management and control,* MPhil/PhD
95.9 Leeds, *Civil engineering,* MPhil/PhD, inc public health eng, supervision available: current research interests in Dept of Civil Eng: industrial wastewater and landfill leachate treatment, fixed biomass anaerobic digesters, fundamental studies on biofloc formation and bulking in activated sludge systems, extended aeration processes, low-cost sewage treatment (inc waste stabilisation ponds), low-cost water supplies and sanitation systems for developing countries: water and wastewater microbiol. Contact Professor DD Mara
95.10 [illegible]
95.11 [illegible]
95.12 [illegible]
95.13 [illegible]
95.14 [illegible]
95.15 [illegible]
95.16 [illegible]
95.17 [illegible]
95.18 Salford, *Civil engineering,* MSc/PhD
95.19 Sheffield City Poly, *Civil engineering,* MPhil/PhD (CNAA)
95.20 Southampton, *Civil engineering,* MPhil/PhD
95.21 South Bank Poly, *Environmental science and technology,* MPhil/PhD (CNAA)
95.22 Strathclyde, *Civil engineering,* MSc/PhD
95.23 Teesside Poly, *Civil and structural engineering and building,* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

95.24 [illegible]
95.25 [illegible]
95.26 City, *Water resources engineering,* MSc
95.27 Cranfield, *Energy and buildings,* MSc
95.28 Cranfield, *Energy conservation and the environment,* MSc

95:29 Cranfield (Silsoe), *Irrigation engineering,* MSc

95:30 Cranfield (Silsoe), *Irrigation water management,* MSc/Diploma

95:31 Cranfield (Silsoe), *Soil and water engineering,* MSc/Diploma

95:32 Edinburgh, *Fire engineering,* MSc/Diploma

95:33 Glasgow, *Desalination technology,* MSc/Diploma

95:34 Leeds, *Environmental pollution control,* MSc, 1-2c yrs f-t (deg in physical science or eng req, othe grads considered), provides fundamental understanding of causes and effects of environmenta pollution with sp emphasis on methods of control of pollution, also legal and econ factors involvec coursework assessment, extended expt1 project. Contact Professor A Williams

95:35 Leeds, *Tropical public health engineering,* MEng, 1c yr f-t; concerned with water supplies an waste disposal in developing countries; *course content, basic core:* lectures and coursework on low cost water supply and sanitation, urban water supply, wastewater eng, sanitary microbiol, soli waste management, irrigation eng, communications support, development economics and plan ning, project appraisal and management techniques, plus either dissertation or design project an long essay Contact Professor DD Mara

95:36 Liverpool, *Environmental civil engineering,* MEng/Diploma, 1 yr f-t; covers analysis, planning design and operation of civil eng infrastructure development projects and their econ and environ mental impacts, both latest technological practice and appropriate technology for developin countries, *syllabus* natural environments, applied hydrology and eng hydraulics, water resource eng, highways and transportation, environmental planning. Contact Miss P Breen

95:37 London (Imperial), *Environmental technology,* MSc/DIC, 1c yr f-t; designed to train graduates i environmental management areas of industry, local and national govt in UK and overseas interdisciplinary treatment, *course content term 1:* intro to environmental technology, physica environment, principles of applied ecology, primary mineral production, energy, environmenta law, urban technology, resource economics, environmental policy, OR, environmental modellin and sources and choices of technology, *term 2:* specialist option from: ecological managemen energy policy, mineral production and environment, pollution, water management; *term 3* individual project (NERC/ESRC/SERC). Contact Mrs DS Paterson-Fox

95:38 London (Imperial), *Public health engineering,* MSc/DIC, 1 yr f-t; training for engineers an scientists with work experience or sp interest in control of pollution in environment and protectio of public health, modular course; *modules offered:* hydrogeol, water supply and distribution wastewater collection systems, water treatment, wastewater treatment (theory, design and con trol), environmental eng chem, stat analysis and modelling in water eng, open channel flow, urba hydrology, rainfall measurement and analysis, microbiol for engineers, water-related tropica diseases, water supply and sanitation in developing countries, water quality management, bac teriology, industrial effluent treatment, computer programming, lab tests in exam of water an water-borne wastes, air pollution control, water resources, systems modelling and optimisation solid and hazardous wastes management, written exams, design project (SERC). Contact Dr M Boldwin

95:39 London (Queen Mary), *Water resources engineering,* MSc, 1 yr f-t or 3 yrs p-t (deg in civil eng maths, geol, geog or related discipline req); broad course covering water eng practice an management, compulsory modules, hydraulics, hydrology, water quality, math methods, plannin control and economics, selective modules from pumping systems, water resource systems optimisa tion, river eng, irrigation eng, ocean eng, earth structures, water supply and wastewater disposal exam, coursework and project Contact Dr JJR Williams, Dept of Civil Engineering

95:40 London (UC), *Environmental design and engineering,* MSc, 1c yr f-t: 2 yrs p-t (hons deg in archi tecture, building science, eng or other cognate subj normally req); *course content:* integrated units principles of environmental eng, natural and artificial lighting, building acoustics and noise heating, ventilation and air conditioning, environmental applications; written exam on each unit report (gives RIBA part 2 exemption if combined with *Architecture,* Diploma (see Architecture) Contact Dr M Symes

95:41 Loughborough, *Water and waste engineering for developing countries,* MSc/ALUT

95:42 Manchester, *Pollution and environmental control,* MSc/Diploma *See page 426*

95:43 Manchester (UMIST), *Pollution and environmental control,* MSc/DipTechSci

95:44 Middlesex Poly, *Air and water pollution control,* MSc/Diploma (CNAA)

95:45 Napier C (Edinburgh), *Biology of water management,* MSc (CNAA)

95:46 Newcastle, *Public health engineering,* MSc

95:47 Newcastle, *Water resources,* MSc

95:48 Poly of Central London, *Air and water pollution control,* MSc/Diploma (CNAA)

95 49 **Sheffield City Poly,** *Chemical pollution monitoring*, MSc/Diploma
95 50 **Sheffield City Poly,** *Water engineering and pollution control*, MSc/Diploma (CNAA)
95 51 **Southampton,** *Environmental and energy aspects of automotive engine design*, MSc
95 52 **South Bank Poly,** *Energy resources management*, MSc/Diploma (CNAA)
95 53 **South Bank Poly,** *Environmental engineering*, MSc/Diploma (CNAA)
95 54 **Strathclyde,** *Public health and environmental control engineering*, MSc/Diploma
95 55 **Strathclyde,** *Water engineering*, MSc

Certificates and diplomas

95 56 **Farnborough CT,** *Pollution measurement*, Advanced Diploma (CNAA)
95 57 **Middlesex Poly,** *Water supply and public health engineering*, Diploma
95 58 **Newcastle,** *Public health engineering*, Certificate
95 59 **Newcastle,** *Public health engineering*, Diploma
95 60 **Newcastle,** *Water resources*, Diploma
95 61 **NE London Poly,** *Civil engineering*, Diploma

UNIVERSITY OF MANCHESTER

MSc/Diploma

Pollution and environmental control

1-2c yrs f-t (MSc), 1 yr f-t (Diploma)

Joint course with Manchester (UMIST): *course content:* intro (definition and relationship to wider problems, waste diffusion, risk assessment, principles underlying estimation of pollution damage and its technical, legal and admin control), pollution damage (relationship between waste disposal and pollution accumulation and passage through food chains, detection of persistent pollutants by chem and biol methods and biol indicators, effects of pollution on agriculture, fisheries, human health and wildlife, estimation of pollution damage), noise, oil spillage, technical control systems (monitoring systems, technical means of control and removal of pollutants within processes and at release, criteria for selection of methods, recycling sewage and toxic waste disposal), public authority control systems (econ assessment of damage, optimal pollution control, cost considerations in town planning, legal and admin systems in UK, methods of control, planning powers, control systems in foreign countries), research project, dissertation (MSc), essay (Diploma) (SERC)

Contact: Mrs C Gee, Environmental Bioscience, University of Manchester, Mathematics Tower, Oxford Road, Manchester M13 9PL.

Read

the displayed advertisements for additional information

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96 Engineering: marine, naval architecture and shipbuilding

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

96 1 **City,** *Ocean engineering,* MPhil/PhD
96 2 **Glasgow,** *Naval architecture and ocean engineering* MSc/PhD
96 3 [illegible]
96 4 [illegible]
96 5 [illegible]
96 6 **London (UC),** *Mechanical engineering,* MPhil/PhD
96 7 **Newcastle,** *Marine technology,* MSc/PhD
96 8 **Portsmouth Poly,** *Mechanical engineering and naval architecture,* MPhil/PhD (CNAA)
96 9 **Southampton,** *Civil engineering,* MPhil PhD
96 10 **Southampton,** *Ship science,* MPhil/PhD supervision available for research recent interests inc transverse stability of planing craft study of ship stability at large heel angles in extreme sea conditions prediction of manoeuvring characteristics of ships prediction of sail shape under load boundary layer studies on sails study of wavemaking resistance Contact Professor GJ Goodrich
96 11 [illegible]
96 12 [illegible]
96 13 [illegible]
96 14 [illegible]
96 15 **Surrey,** *Mechanical engineering,* MPhil/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

96 16 **Cranfield,** *Underwater technology,* MSc
96 17 **Heriot Watt,** *Computer aided engineering,* MEng
96 18 **Liverpool** [illegible]
96 19 [illegible]
programmes inc gen ship theory application and production design study fieldwork individual project Contact Dr RSJ Corran
96 20 **London (UC),** *Naval architecture,* MSc/Diploma 1c yr f t *course content* studies covering theory and application to design principles of ship design (inc computer aided ship design) ship structures (inc subsea structures) ship dynamics (both probabilistic response and rigid body motions) ship

hydrodynamics, marine eng (inc materials and ship environment); coursework inc ship design project and individual research project Contact Dr RSJ Corran

96:21 **London (UC),** *Ocean engineering*, MSc/Diploma, 1c yr f-t, lecture course covers offshore structures (adv structural analysis and design, foundation considerations), dynamics (wave loading and dynamics of fixed, floating and compliant offshore platforms), ocean environment (sea as a random process, materials in marine environment), maritime studies (maritime law, marine geol, man in the sea, econ and management aspects), individual project, design studies and fieldwork Contact Dr RSJ Corran

96:22 **Manchester,** *Maritime civil engineering*, MSc/Diploma

96:23 **Newcastle,** *Marine engineering*, MSc

96:24 **Newcastle,** *Marine technology*, MSc/Diploma *See page 428*

96:25 **Royal Naval EngC,** *Marine engineering*, MSc (CNAA)

96:26 **Southampton,** *Oceanography*, MSc/Diploma

96:27 **Strathclyde,** *Marine technology*, MSc

96:28 **Strathclyde,** *Ship production technology*, MSc

Certificates and diplomas

96:29 **Glasgow,** *Naval architecture and ocean engineering*, Diploma

96:30 **Newcastle,** *Marine engineering*, Diploma

96:31 **Newcastle,** *Naval architecture*, Certificate *See page 428*

96:32 **Newcastle Poly,** *Offshore materials and corrosion engineering*, Diploma (CNAA)

96:33 **Robert Gordon's IT (Aberdeen),** *Offshore engineering*, Diploma (CNAA)

96:34 **Strathclyde,** *Ship technology*, Diploma

97 Engineering: mechanical

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

97 1 **Aston,** *Mechanical and production engineering,* MPhil/PhD supervision available for research particular interest in *adv machining and processing of materials* design and characterisation of

97 2

97 3 **Birmingham,** *Mechanical engineering* MSc/PhD

97 4 **Birmingham Poly,** *Mechanical and production engineering* MPhil/PhD (CNAA)

97 5 **Bradford,** *Mechanical and manufacturing systems engineering* MPhil/PhD

97 6 **Brighton Poly,** *Mechanical and production engineering,* MPhil/PhD (CNAA) facilities and supervision available for research in various fields of mechanical and production eng major fields of study heat transfer, fl power CAD/CAM machine tool dynamics control systems Contact Dr TA Cowell

97.7 **Bristol,** *Mechanical engineering,* MSc/PhD supervision available interests inc *materials and mechanics* stress analysis of adhesive joints non-destructive testing of composite materials dynamics of composite materials design of high speed mechanisms CAD plasticity fatigue creep interaction between cyclic plasticity and creepent elevated temp fracture mechanics crack

97 8 **City,** *Mechanical engineering* MPhil/PhD supervision available current research in following fields some specific projects named *mechanics and materials* dynamics of wind turbines and

tion of metals alloys and composites powder metallurgy, CAE microprocessors in CAD CAM design to product systems distributed processing development of improved orthodontic wires fluidics in casting hot ductility of steels Contact Dr RS Neve

97 9

97.10

97.11

97.12 **Dundee,** *Mechanical engineering,* MSc/PhD

97 13

97.14

97 15

97 16 available, current research inc

2-phase flow: separation of liq droplets from flowing gas or vapour; *rotor dynamics:* gen calculation methods for elastic rotors supported on oil films; *dynamic response of marine r attached to floating vessels:* calculation methods to evaluate excursions and stresses in marine r tensioners in response to wave forces and floating rig motions; *vapour power cycles:* d computer procedures, computer packages for prelim design of plant esp for utilisation of low waste heat; *boiling heat transfer:* boiling mechanism under flow conditions on shell side of t bundles, heat pumps; *natural circulation in ducts:* behaviour and stability of circulating flows in vertical tubes and other geometries; *CAE:* computer-aided draughting and modelling, computer aided information flow in small batch production, automated tool management, intelligent gauging, robotic devices and work piece handling and loading systems, human body and product modelling, expert systems in design and manufacture; modal analysis of linear and nonlin structures; dynamic properties of visco-elastic materials. Contact Dr BM Burnside

97:17 Huddersfield Poly, *Mechanical and production engineering,* MPhil/PhD (CNAA)

97:18 Kingston Poly, *Mechanical, aeronautical and production engineering,* MPhil PhD

97:19 Lancashire Poly, *Mechanical and production engineering,* MPhil PhD (CNAA)

97:20 Leeds, *Mechanical engineering,* MPhil PhD

97:21 Leicester Poly, *Mechanical and production engineering,* MPhil PhD (CNAA)

97:22 Liverpool, *Mechanical engineering,* MEng PhD

97:23 Liverpool Poly, *Mechanical, marine and production engineering,* MPhil/PhD (CNAA) *Sup*

97:24 London (Imperial), *Mechanical engineering,* MPhil PhD, supervision available; research opportunities in following fields, some specific projects named: *applied mechanics:* biomechanics development of orthopaedic implants, dynamics, tribology, manufacturing technology, strength of materials; *fl mechanics, heat transfer and combustion:* turbulent flows, improved design methods for combustion chambers of gas turbines, ic engines and furnaces, flow and heat-transfer characteristics of intake ducts, bends and headers; *nuclear power:* theoretical techniques for design of radiation shields in complex forms inc finite element method, assessment of environmental aspects of nuclear reactors inc methods for modelling atm transport of radionuclides over complex terrain, waste management implications of decommissioning nuclear reactors; *thermal power,* ex technology, application of exptl and theoretical techniques to wide range of fl mechanics, thermodynamics and combustion, problems related to internal combustion engines, turbocharging and steam turbines. Contact Professor JG Williams

97:25 London (KQC), *Mechanical engineering,* MPhil PhD; supervision available for research, projects inc: improvement of diesel engine efficiency, combustion in small high speed diesel engines, prediction and measurement of gas flow patterns in cylinders of ic engines; control of exhaust emissions from ic engines, study of turbulence in engine cylinders; investigation of gas flow in turbochargers, microprocessor control of engines; mixed refrigerants; absorption refrigeration systems, regulation of refrigerant flow to evaporators; freezing of foodstuffs; heat and mass transfer in porous bodies, flow characteristics of jet-agitated reactors; hydraulic characteristics of oil drilling bits, investigation of convective heat transfer by liq crystal thermography; multiphase and non-Newtonian internal flow, investigation of the flow patterns of fuel sprays; bearing running-in characteristics and surface finish; dynamically-loaded, hydrodynamically-lubricated plain bearings, EHD lubrication, automated sensoring and assembly; noise and vibration characteristics of automobile braking systems; frictional damping of structures; impact and noise effects of bearing clearance in mechanisms; prediction of oil film thickness in flexibly mounted bearings; friction and wear behaviour of ion implanted steels, cast irons and ceramics; effects of ion implantation on the fretting fatigue resistance of bearing steels and ceramics; extrusion of pastes; deep bed screening, oil-free refrigeration compressors; fracture mechanics analysis. Contact Mr SC Whitlock

97:26 London (Queen Mary), *Mechanical engineering,* MPhil/PhD; research interests in following main areas: fl mechanics and heat transfer, thermodynamics, combustion engines, stress analysis, processing and properties of materials, dynamics, systems analysis, optimisation, control and automation, aspects of CAE; specific staff interests inc: investigations of unsteady compressible flows; various aspects of condensation heat transfer; enhanced condensation on low integral-fin tubes; correlation of exptl data in relation to eqns of state of fls; natural convection flows; combustion characteristics of liq fuel sprays in air at high pressures; thermoecon analysis and optimisation of thermal plant components and plant configurations using exergy method form of 2nd-law analysis; design analysis techniques such as finite element methods; vibration of composite plates in presence of hydrostatic, centrifugal and thermal stress; design and development of coal fired power plants for industrial, marine and traction applications; simulation of mechanic

systems, analysis and synthesis of linkage and robotic systems and mobility analysis in such systems Contact Professor JW Rose

97:27 London (UC), *Mechanical engineering*, MPhil/PhD

97:28 Loughborough, *Mechanical engineering*, MSc/MTech/PhD

97:29 Manchester, *Mechanical engineering*, MSc/PhD, supervision available research projects inc *aerodynamics and fl mechanics* studies of ground winds around tall buildings fire ventilation, turbulence in high intensity shear flows, 2 phase flow, flow measurement by computer, *design* [illegible]

97:30 Manchester (UMIST), *Mechanical engineering*, MSc/PhD See page 437

97:31 Manchester Poly, *Mechanical, production and chemical engineering*, MPhil/PhD (CNAA)

97:32 Newcastle, *Mechanical engineering*, MSc/PhD

97:33 Newcastle Poly, *Mechanical engineering*, MPhil/PhD (CNAA)

97:34 NE London Poly, *Manufacturing studies and mechanical engineering*, MPhil/PhD (CNAA)

97:35 N Staffs Poly, *Mechanical and civil engineering*, MPhil/PhD (CNAA)

97:36 Nottingham, *Mechanical engineering*, MPhil/PhD

97:37 Open, *Engineering mechanics*, BPhil/MPhil/PhD

97:38 Paisley CT, *Mechanical and production engineering*, MPhil/PhD (CNAA)

97:39 Plymouth Poly, *Mechanical engineering*, MPhil/PhD (CNAA), supervision available for research, recent topics inc manufacture and properties of composite materials, renewable and low grade energy utilisation, autopilotage of ships in confined waters, rule induction and AI applications in mechanical eng, combustion generated pollution Contact Academic Registrar

97:40 Poly of Wales, *Mechanical and production engineering*, MPhil/PhD (CNAA)

97:41 [illegible]

97:42 [illegible]

97:43 [illegible]

97:44 [illegible]

97:45 Sheffield City Poly, *Mechanical and production engineering*, MPhil/PhD (CNAA)

97:46 [illegible]

incompressible swirling flow, cyclone separators, flow props of foams, automatic liq coolant systems, *machine dynamics* drive train dynamics for vehicles fitted with continuously variable transmission, vibration in beam structures, control of rotodynamic assemblies, mechanics of composite structures, helicopter rotordynamics, dynamics of wind turbines, structural dynamic testing and conditions of monitoring, *thermodynamics* pipe freezing thermal stresses and influence on steel properties, ic engines, aspects of numerical heat transfer, *instrumentation* microprocessor instrumentation systems Contact AJ Munday

97:47 South Bank Poly, *Mechanical and production engineering*, MPhil/PhD (CNAA), supervision available, current projects inc creep of wood in concurrently changing humidities, theoretical and [illegible]

97:48 **Strathclyde,** *Mechanical engineering,* MSc/PhD; research areas: *thermodynamics and heat transfer:* dynamics of compressor valves; pulsations in compressor systems; 2-phase flow; flow patterns in boiler tubes; sudden pressure drops and circulation; *nuclear power:* after-heating in reactor fuel elements; transient natural convective cooling; water-cooled reactor channel heat transfer studies; sub-cooled boiling in narrow channels; *fl mechanics, tribology, fl power:* computer controlled pump testing, compressor design using CAD, pump design using CAD, laser anemometry, wind power studies; *environmental eng:* ventilation of commercial and industrial buildings; *mechanics of materials:* pressure vessel and piping design; inelastic analysis methods, piping components, support problems, shape imperfections; submarine pipelines; fracture mechanics applications; finite element studies; materials testing investigations; design of thin walled structures; load carrying capacity of roof and flooring systems, buckling and postbuckling behaviour; designing with composite materials; GRP and CFRP applications, mountings and supports, tee junctions, filament wound piping and carbon fibre panels; optical stress analysis including optecord system applied to fracture mechanics measurements, residual stress determination, tube rolling and high temperature strain measurement; *dynamics and control:* modelling, identification and control of rotor-bearing systems; vibrations in rotating machinery; active control of vibrations; modelling and control of transmissions; *design:* CAD, graphics involving automatic draughting, surface generation, perspectives and hidden line analysis, graphing, contouring and N/C simulation, optimum design. Contact Dr WM Banks

97:49 **Sunderland Poly,** *Mechanical engineering,* MPhil/PhD (CNAA)

97:50 **Surrey,** *Mechanical engineering,* MPhil/PhD; supervision available, fields of research inc: *biomedical eng:* clinical gait analysis, mobility, communication aids for spastic children and disabled; *control systems eng:* robotic design, robot performance measurement, fl control systems, vision systems, expert systems, electrohydraulic switching valves; *flow measurement:* effects of flow pulsations on performance of flow meters, use of laser doppler instruments; *fl mechanics:* buff body flows, free jet floes, stratified flow studies around hills and buildings, flow over moveable weir gates, pressure wave studies related to pipeline explosions; *stress analysis:* behaviour of laminated structures, photoelastic analysis of bolted joints, inelastic deformation of reinforced structures; *dynamics:* turbine blade vibrations, finite element methods in vibration analysis: *structural analysis:* nonlinear buckling characteristics of plates and shells, testing of offshore structures subj to pressure and compression, dynamic response of structures to transient loading; *ic engines:* exptl and analytical study of combustion of lean mixtures; *design and production techniques:* CAD and manufacture esp related to small and medium sized companies. Contact Professor GA Parker

97:51 **Sussex,** *Mechanical and civil engineering,* MPhil/DPhil *See page 437*

97:52 **Teesside Poly,** *Mechanical engineering,* MPhil/PhD

97:53 **Thames Poly,** *Mechanical engineering,* MPhil/PhD (CNAA)

97:54 **Trent Poly,** *Mechanical engineering,* MPhil/PhD (CNAA)

97:55 **Ulster,** *Mechanical and industrial engineering,* MPhil/DPhil

97:56 **Wales (Cardiff),** *Mechanical engineering and energy studies,* MSc/PhD

97:57 **Wales (Swansea),** *Mechanical engineering,* MSc/PhD

97:58 **Wales (UWIST),** *Mechanical engineering and engineering production,* MEng/PhD

97:59 **Warwick,** *Mechanical engineering,* MSc/PhD

97:60 **Wolverhampton Poly,** *Mechanical engineering,* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

97:61 **Aberdeen,** *Instrument design,* MSc

97:62 **Bath,** *Diesel engine technology,* MSc

97:63 **Birmingham,** *Machine tool and manufacturing technology,* MSc *See page 437*

97:64 **Birmingham,** *Thermodynamics and related studies,* MSc *See page 438*

97:65 **Cranfield,** *Automotive product engineering,* MSc

97:66 **Cranfield,** *Design of production machines and systems,* MSc, 1-2 yrs f-t (for 1-yr course hons deg in approp subj req); *syllabus: yr 1:* eng sciences, mechanics of machines, design of machines, control

97 67

97.68

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97:72 **Cranfield,** *Thermal power*, MSc

97:73 **Cranfield,** *Valve design and technology*, MSc

97.74 **Cranfield,** *Welding technology*, MSc

97 75 **Durham,** *Engineering*, MEng

97.76 **Leeds,** *Tribology and computer aided machine design*, MEng

97.77 **Liverpool,** *Advanced manufacturing systems and technology*, MEng 1 yr f t 2 yrs p-t *syllabus* adv manufacturing systems, applied microcomputing control and instrumentation adv manufacturing technology and eng management plus substantial 6 mth project *lecture topics examined for* students interested in transferring to careers in manufacturing industry hons deg or equiv entry, (SERC, Industrial places) **Contact** Dr J Driscoll Course Director AMST (Quote ref AMSTO3)

97.78 **Liverpool,** *Power plants and energy related studies*, MEng

97.79 **London (Imperial),** *Advanced applied mechanics*, MSc/DIC, 1 yr f t, aims to give expertise in techniques of adv applied mechanics in industry univs polys and govt estabs *core course computing stress analysis, dynamics, optional modules* applied dynamics creep fatigue and fracture, polymer eng, mechanics applied to manufacturing lubrication and wear pressure vessels, manufacturing applications, plus research project and report (SERC) **Contact** Professor JG Williams

97.80 [illegible]

97.81 [illegible]

97.82 [illegible]

97.83 [illegible]

97.84 [illegible]

97.85 **Sheffield City Poly,** *Engineering (mechanical engineering design)*, MSc/Diploma (CNAA)

97:86 **Southampton,** *Environmental and energy aspects of automotive engine design*, MSc/Diploma

97.87 **Strathclyde,** *Mechanical engineering*, MSc

Certificates and diplomas

97.88 **Dundee,** *Mechanical engineering*, Diploma

97.89 **Humberside CHE (Hull),** *Refrigeration engineering or refrigeration and air conditioning*, Diploma

97.90 **West Glamorgan IHE (Swansea),** *Mathematical education*, Diploma (Math Assoc)

School of
Mechanical Engineering

One-Year MSc Courses

Energy and Buildings – This course is designed for those who have an interest in *the designs of energy-efficient buildings.* Part of the tuition provided will introduce students of an engineering or scientific background to the constraints which apply to architects, building surveyors, building economists, planners and civil engineers, while conversely students of these disciplines will become familiar with the engineering approach to energy efficiency. Graduates from this course will be immediately useful as contributors to the growing number of multi-disciplinary teams involved with the design of the built environment.

Energy Conservation and the Environment – This course is designed for engineers, scientists and mathematicians who wish to gain an in-depth understanding of energy thrift. Emphasis is placed on energy conscious design and management, thermal insulation, waste-heat recovery, furnace design, integrated environmental design of buildings and the effects of energy release on the environment. The scheme of study includes a research or design project.

Energy Studies – The coveted French degree of Diplôme d'Ingénieur as well as the prestigious Cranfield MSc can now be gained through a two-year **double-degree** course in Energy Studies. This dual qualification ensures that British engineers can practise throughout western Europe. The first year of the course is presented at the University of Technology at Compiègne near Paris, and the second year at Cranfield. Some knowledge of French is essential although pre-course extra tuition is arranged if required.

Engineering Mechanics – *This is an industrially related course aimed at providing* comprehensive instruction in selected topics in Engineering Mechanics. Extended treatment is given to vibration and stress analysis, tribology and design philosophy. The course is based on a combination of lecture courses and research.

Finite Element Stress and Vibration Analysis – Modern analytical methods such as the finite-element and boundary-integral techniques are covered in this course in parallel with the more classical methods. Computer aided design, numerical techniques, fatigue and fracture, plasticity and experimental stress analysis are also dealt with. The course project is based upon an industrial problem and could be carried out partly 'in-company'.

Graduates with a good honours degree in an appropriate subject are invited to apply for admission to these **one-year MSc courses.**
A preliminary-year course of study is available for candidates with other qualifications. This course is designed to prepare students for entry into the one-year MSc programme of their chosen specialisation.
Excellent facilities are available for those wishing to study for a PhD degree by research. For the two-year PhD programme candidates must have a good postgraduate qualification, while for the three-year programme they require at least a good honours degree.
Accommodation – two halls of residence are situated on the campus and provide individual study-bedrooms. In addition, a block of flats and some houses may be available for married students.



Machine Design – This course is concerned with advanced design of machir such as gas-turbines, steam-turbines and power transmission systems Gro design projects are usually industrially based

Noise and Vibration of Rotating Machines – This course is aimed at the productio of dynamicists and noise specialists for machines ranging from small motors to turbines. It covers the latest computational and prediction techniques, and deals with machine malfunction and health monitoring

Pump and Valve Design and Technology – These courses have been developed at the request of the British Pump and Valve Manufacturers' Association, to overcome the current shortage of high-calibre engineers necessary for carrying out the advan- ced design and research required for a healthy British pump and valve industry

Automotive Product Engineering – Product engineering in the ... includes the whole process of vehicle engineering ... manufactured product The co... vehicle engin...

... try ... ial ... compressor, turbine, marine and industrial applications ... ugh grounding is provided in gas turbine design ... of ... research or design project. ... characteristics are complemented by a major ...

Rotating Machinery Engineering and Management – The course emphasises subjects of particular interest to major users of rotating machinery in oil, gas and process industries – prime movers and driven equipment, selection, commissioning and operation, project planning and management

Combustion and Fuels – The lecture programme and research project cover both the applied sciences involved in understanding the combustion process and the application to a range of engine and industrial thermal power systems, including ... and economy, alternative fuels and pollutant emissions

Aerospace Propulsion – The principles and operation of a variety of air-breathing and rocket propulsion systems are studied A well-established course in aircraft ... centred on the gas turbine, is complemented by studies of systems relevant to spacecraft and missiles

Further particulars, including details of Scholarships and bursaries may be obtained from

The Tutor for Admissions, School of Mechanical Engineering (Ref. 1389), Cranfield Institute of Technology, Cranfield, Bedford MK43 0AL Tel: Bedford (0234) 750111. Telex: 825072

Advertisement

ASTON UNIVERSITY

Department of Mechanical and Production Engineering

POSTGRADUATE OPPORTUNITIES

ONE YEAR MSc TAUGHT COURSES IN

i. Computer Aided Design for Manufacture (supported by MSC)
ii. Advanced Manufacturing Technology *(approved by EITB)*

Both courses comprise 6 months' taught work followed by 6 months' project.

RESEARCH FACILITIES

Research projects are currently available in the general areas of
Computer Aided Design
Computer Aided Manufacture
Computer Aided Production Management
Computer Integrated Manufacture
Design and Control of Manufacturing Systems

Further information from:

Dr G Beaumont
Mechanical & Production Engineering Department
Aston University
Aston Triangle
Birmingham B4 7ET

Aston University

Department of Mechanical and Production Engineering

Opportunities for MSc
(part-time and full-time)
MPhil – PhD
(part-time and full-time)

One-year modular advanced course for MSc degree in Computer-Aided Design
Lectures in Geometric Modelling, Finite Element Analysis, Design, Methodology, Microprocessor-based Control, etc
Two terms' lectures
Remainder of course full-time project

MPhil – PhD studies in exploiting Microprocessors Control, Stress and Dynamical Analysis, Topics in CAD ranging from Geometric Modelling to Expert Systems and Finite Element Applications

Grants from SERC

Enquiries
Dr J E Penny
Department of Mechanical and Production Engineering
Aston University
Birmingham B4 7ET



LIVERPOOL POLYTECHNIC

DEPARTMENT OF MECHANICAL, MARINE AND PRODUCTION ENGINEERING

MSc/Postgraduate Dip (Computer Aided Eng)

The course provides preparation for an industrial career, specialising in CAD/CAM
SERC and MSC awards are available

Higher degrees by research:
MPhil/PhD

Research topics available in·
Hybrid Bearings, Laser Vision Systems (Automatic Inspection and Engineering Optics), Manufacturing Systems and Processes, Mechanisms and Machines (High Speed Machines and Robotics), Servo-Valve Dynamic Flow Analysis, Computational Fluid Dynamics

Applicants should *either* have an Honours degree in Engineering, Physics or Applied Mathematics *or* a degree plus relevant industrial experience

Further information from· Dr W Weston, Acting HOD, Department of Mechanical, Marine and Production Engineering, Liverpool Polytechnic, Byrom Street, Liverpool L3 3AF

UNIVERSITY COLLEGE LONDON

MSc Course in NON-DESTRUCTIVE EVALUATION

This part-time course has developed from the Mechanical Engineering Department's growing research involvement with non-destructive testing and its expertise in fracture mechanics and fatigue

It is primarily intended for candidates employed by organisations engaged in the production or application of inspection equipment and who will be seconded to the course by their employers

Lecture and laboratory classes will involve attendance at UCL for one complete term of the academic year Subjects covered include ultrasonics, electromagnetics, radiography, instrumentation, materials fracture mechanics, reliability, quality control, automation and control, mathematics, design and stress analysis During the remainder of the year, project work will be performed in the laboratories at the student's employer under the supervision of an industrial tutor and a tutor from UCL The course will extend over a period of two calendar years

Details and application forms from
The Postgraduate Tutor(sg), Dept Mech Eng
University College London
Torrington Place, London WC1E 7JE

Machine tool and manufacturing technology

UNIVERSITY OF BIRMINGHAM

Degree MSc (Eng)

Length of course 1 year full time up to 4 years part time

No of places 15 maximum

Description of course Intended for graduates in or about to enter manufacturing industry. The course comprises the

[illegible]

hands-on experience

Entrance requirements Open to all engineering graduates with a good honours degree and others with approved qualifications who already have satisfactory industrial experience

Grant The course is accepted by the SERC as tenable for SWITCH Advanced Course Studentships

Acting Head of department Professor R Davies

Application and enquiries The Admissions Secretary The University of Birmingham Department of Mechanical Engineering PO Box 363, Birmingham B15 2TT Telephone 021 472 1301 ext 3638/2714

ASTON UNIVERSITY

Department of Mechanical and Production Engineering

POSTGRADUATE OPPORTUNITIES

ONE YEAR MSc TAUGHT COURSES IN

i. Computer Aided Design for Manufacture (supported by MSC)
ii. Advanced Manufacturing Technology (approved by EITB)

Both courses comprise 6 months' taught work followed by 6 months' project.

RESEARCH FACILITIES

Research projects are currently available in the general areas of

Computer Aided Design
Computer Aided Manufacture
Computer Aided Production Management
Computer Integrated Manufacture
Design and Control of Manufacturing Systems

Further information from:

Dr G Beaumont
Mechanical & Production Engineering Department
Aston University
Aston Triangle
Birmingham B4 7ET

Aston University

Department of Mechanical and Production Engineering

Opportunities for MSc
(part-time and full-time)
MPhil – PhD
(part-time and full-time)

One year modular advanced course for MSc degree in Computer Aided Design. Lectures in Geometric Modelling, Finite Element Analysis, Design Methodology, Microprocessor based Control etc.
Two terms' lectures
Remainder of course full-time project.

MPhil – PhD studies in developing Microprocessor Control, Stress and Dynamical Analysis, Topics in CAD ranging from Geometric Modelling to Expert Systems and Finite Element Applications.

Grants from SERC

Enquiries

Dr J E Penny
Department of Mechanical and Production Engineering
Aston University
Birmingham B4 7ET

LIVERPOOL POLYTECHNIC

DEPARTMENT OF MECHANICAL, MARINE AND PRODUCTION ENGINEERING

MSc/Postgraduate Dip (Computer Aided Eng)

The course provides preparation for an industrial career, specialising in CAD/CAM. SERC and MSC awards are available.

Higher degrees by research
MPhil/PhD

Research topics available in:
Hybrid Bearings, Laser Vision Systems (Automatic Inspection and Engineering Optics), Manufacturing Systems and Processes, Mechanisms and Machines (High Speed Machines and Robotics), Servo Valve Dynamic Flow Analysis, Computational Fluid Dynamics.

Applicants should either have an Honours degree in Engineering, Physics or Applied Mathematics or a degree plus relevant industrial experience.

Further information from: Dr W Weston, Acting HOD, Department of Mechanical, Marine and Production Engineering, Liverpool Polytechnic, Byrom Street, Liverpool L3 3AF

UNIVERSITY COLLEGE LONDON

MSc Course in NON-DESTRUCTIVE EVALUATION

This part-time course has developed from the Mechanical Engineering Department's growing research involvement with non-destructive testing and its expertise in fracture mechanics and fatigue.

It is primarily intended for candidates employed by organisations engaged in the production or application of inspection equipment and who will be seconded to the course by their employers.

Lecture and laboratory classes will involve attendance at UCL for one complete term of the academic year. Subjects covered include ultrasonics, electromagnetics, radiography, instrumentation, materials, fracture mechanics, reliability, quality control, automation and control, mathematics, design and stress analysis. During the remainder of the year, project work will be performed in the laboratories at the student's employer under the supervision of an industrial tutor and a tutor from UCL. The course will extend over a period of two calendar years.

Details and application forms from:

The Postgraduate Tutor(sg), Dept Mech Eng
University College London
Torrington Place, London WC1E 7JE

Machine tool and manufacturing technology

UNIVERSITY OF BIRMINGHAM

Degree MSc (Eng)

Length of course 1 year full time up to 4 years part time

No of places 15 maximum

Description of course Intended for graduates in or about to enter manufacturing industry The course comprises the

hands-on experience

Entrance requirements Open to all engineering graduates with a good honours degree, and others with approved qualifications who already have satisfactory industrial experience

Thermodynamics and related studies

UNIVERSITY BIRMINGH

Degree MSc (Eng)

Length of course 1 year full time

No of places 15 maximum

Description of course This is normally a 12-month course, commencing on 1 October, leading to MSc (Eng) by course and laboratory work and a project. The course is designed for graduates whose interests lie in the area of heat and fluid flow processors in power plant, their component posts and in the process industries. The compulsory courses cover thermodynamics, gas dynamics, heat transfer, combustion theory, turbo machinery, condensation phenomena, internal combustion engines, microprocessor technology and computational fluid mechanics. Optional courses are given in dynamics and solar energy. Projects are offered after the first term and these are submitted at the end of the course, on the basis of the research programme within the department. Projects be theoretically or experimentally based and in the lat case opportunities for gaining experience of on-line d acquisition techniques are provided. During the year, specialist lectures are given by visiting lecturers from industry. In special circumstances a preliminary 1-yea course is possible. Arrangements are also being made offer the course over 4 years on a part-time basis

Entrance requirements Good honours degree or equivalent in engineering, physics or mathematics

Acting Head of department Professor R Davies

Application and enquiries The Admissions Secretary, University of Birmingham, Department of Mechanica Engineering, PO Box 363, Birmingham B15 2TT. Telephone 021-472 1301 ext 3638/2714

98 Engineering: minerals and mining

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

98 1 [illegible] MSc/PhD

98 2 [illegible]

98 3 [illegible]

98 4 **Heriot Watt**, *Petroleum engineering*, MSc/PhD

98 5 **Leeds**, *Mining and mineral engineering*, MPhil/PhD supervision available research interests *mining eng* geophysical and geochem prospecting mining geol, mining and petroleum geostats mining simulation rock physics and rock mechanics drilling technology pneumatic and hydraulic transportation heat flow, methane production and migration ventilation in mines digital survey [illegible]

Contact Professor PA Young

98 6 [illegible] MSc/PhD

98 7 [illegible]

98 8 [illegible]

98 9 [illegible]

98 10 [illegible]

98 11 [illegible] strata [illegible] settlement [illegible] workings [illegible]

98 12 [illegible]

98 13 [illegible]

98 14 [illegible]

98 15 [illegible]

98 16 [illegible]

98 17 [illegible]

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

98 18 **Aberdeen**, *Petroleum geology*, MSc

98:19 Camborne SMines, *Mining geology*, MSc (CNAA)
98:20 Cranfield, *Offshore engineering*, MSc
98:21 Durham, *Engineering geology*, MSc, 1 yr f-t; 2 yrs p-t (according to quals); *course conten* geotechnical subjs, emphasis on soil mechanics/soil engineering, rock mechanics/rock engineerin eng geol, eng hydrology, microcomputing; fieldwork; assessment by exam, design report ar dissertation (SERC) Contact Dr RK Taylor
98:22 Heriot-Watt, *Petroleum engineering*, MEng
98:23 Hull, *Industrial mineralogy*, MSc
98:24 Leeds, *Engineering geology*, MSc, 1c yr f-t (according to quals): up to 3 yrs p-t (deg in geol, civil mining eng req), course offered by Depts of Earth Sciences, Civil Eng, Mining and Mineral En *course content* applications of geol to eng, eng geophysics, hydrogeol, photogeol, rock mechanic tropical and arid soil origin and properties, soil mechanics, foundation eng, computing, lab ar field practicals, site visits; exam and dissertation (NERC). Contact Dr WJ Varker
98:25 Leeds, *Mining geostatistics*, MSc, 1c yr f-t; up to 4 yrs p-t (modular); designed for mine valuer planners and operators, modular structure enabling completion by intermittent study; *cour covers* design of sampling programmes, feasibility studies, mine planning, operational geostats (grade control), strong computing element. Contact Professor PA Young
98:26 London (Imperial), *Engineering geology*, MSc/DIC
98:27 London (Imperial), *Engineering rock mechanics*, MSc/DIC
98:28 London (Imperial), *Environmental technology*, MSc/DIC
98:29 London (Imperial), *Mineral exploration*, MSc/DIC
98:30 London (Imperial), *Mineral process design*, MSc/DIC
98:31 London (Imperial), *Mineral production management*, MSc/DIC
98:32 London (Imperial), *Petroleum engineering*, MSc/DIC
98:33 London (Imperial), *Petroleum geology*, MSc/DIC
98:34 Newcastle, *Engineering geology*, MSc
98:35 Newcastle, *Rock mechanics and excavation engineering*, MSc
98:36 Nottingham, *Mining engineering*, MSc, 1 yr f-t (deg in mining usually req); comprehensi background in design and operations in combination with econ decision making, flexible approa to suit individual reqs, emphasis on mine design and operations inc computer aided method Contact Professor T Atkinson
98:37 Strathclyde, *Petroleum engineering*, MSc

Certificates and diplomas

98:38 Camborne SMines, *Mineral technology*, Diploma
98:39 Leeds, *Mineral engineering*, Diploma
98:40 Leeds, *Mining engineering*, Diploma
98:41 Newcastle Poly, *Offshore materials and corrosion engineering*, Diploma (CNAA)
98:42 Robert Gordon's IT (Aberdeen), *Offshore electronic systems*, Diploma
98:43 Robert Gordon's IT (Aberdeen), *Offshore engineering*, Diploma (CNAA)
98:44 Robert Gordon's IT (Aberdeen), *Offshore materials and corrosion engineering*, Diploma (CNA

99 Engineering: nuclear

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

99:1 London (Imperial), *Nuclear engineering,* MPhil/PhD

99:2 London (Queen Mary), *Nuclear engineering,* MPhil/PhD; supervision available, interests in following areas: aerosol behaviour, radiative heat transfer and finite element methods; turbulence theory, numerical and theoretical study of turbulence, 2-phase flow, reactor safety; exptl heat transfer and fl flow; computer-aided teaching, nuclear fuel management, microcomputer control of reactors; Monte Carlo method, finite element method, optimisation of nuclear power systems; fl mechanics and heat transfer, theory of gas centrifuge. Contact Dr J Wood

99:3 Manchester, *Nuclear engineering,* MSc/PhD; supervision available; research interests: *heat transfer:* cover gas and liq sodium heat transfer, aerosol characteristics, re-wetting and carburisation of steel, all with application to liq metal cooled fast reactors; thermal radiation from irradiated fuel elements, ceramic materials, irradiated fuel and high level waste containers for transport or storage; influences of buoyancy and thermal boundary conditions on convective heat transfer in nuclear power systems; very fast transient boiling processes with application to thermal explosions; dryout during flow reversals, direct condensation, flow leakage through cracks, all with application to pressurised water reactors; heat and mass transfer from rotating bodies; *reactor physics:* neutron wave propagation in moderators; *control:* kinetic behaviour and control of thermal plant; application of multivariable control theory to design of nuclear reactor control systems. Contact Professor P Montague

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

99:4 Birmingham, *Physics and technology of nuclear reactors,* MSc

99:5 London (Imperial), *Nuclear technology,* MSc/DIC

99:6 London (Queen Mary), *Nuclear reactor science and engineering,* MSc/Diploma, 1c yr f-t (deg in eng or science subj or approved equiv qual req); adv training for grad engineers and scientists proposing to enter or already working in nuclear industry; *course content:* nuclear reactor theory, exptl reactor physics, reactor shielding, reactor kinetics and control, heat transfer and fl dynamics, nuclear materials and fuel elements, reactor fuel technology, reactor safety and siting, pressure vessel design and codes of practice; assessment by exam and thesis/report. Contact Dr J Wood

100 Engineering: production

Higher degrees by research

ate studies section

100 1 **Aston,** *Mechanical and production engineering*, MPhil/PhD
100 2 **Belfast,** *Mechanical and industrial engineering*, MSc/PhD
100 3 **Birmingham,** *Engineering production*, MSc/PhD
100 4 **Birmingham Poly,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 5 **Bradford,** *Industrial technology*, MPhil/PhD
100 6 **Bradford,** *Mechanical and manufacturing systems engineering*, MPhil/PhD
100 7 **Bradford,** *Technological management*, MPhil/PhD
100 8 **Brighton Poly,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 9 **Coventry (Lanchester) Poly,** *Production engineering*, MPhil/PhD (CNAA)
100 10 **Cranfield,** *Electronic systems design*, MSc/PhD
100 11 **Cranfield,** *Production studies*, MPhil/PhD
100 12 **Huddersfield Poly,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 13 **Kingston Poly,** *Mechanical, aeronautical and production engineering*, MPhil/PhD
100 14 **Leeds Poly,** *Production engineering*, MPhil/PhD (CNAA)
100 15 **Leicester Poly,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 16 **Liverpool Poly,** *Mechanical, marine and production engineering* MPhil/PhD (CNAA)
100 17 **Loughborough,** *Engineering production*, MSc/PhD supervision available major research areas inc CAD CAM robotics flexible manufacturing systems design and simulation production [illegible]

100 18 [illegible]
100 19 [illegible]
100 20 [illegible]
manufacturing technologies inc rotary processing and adaptive control computer controlled manufacture and robotics computer integrated management systems using simulation and expert systems for production decisions occupational ergonomics inc health and safety job organisation, workplace and equipment design for human use, broad cross faculty research opportunities Contact Professor EN Corlett
100 21 **Paisley CT,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 22 **Poly of Wales,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 23 **Sheffield City Poly,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 24 **South Bank Poly,** *Mechanical and production engineering*, MPhil/PhD (CNAA)
100 25 **Strathclyde,** *Production management and manufacturing technology*, MSc/PhD
100 26 [illegible]
100 27 [illegible]
100 28 [illegible] .con/PhD
100 29 [illegible]

100:30 **Warwick,** *Manufacturing engineering,* MSc/PhD
100:31 **Wolverhampton Poly,** *Production engineering,* MSc/PhD (CNAA/various univs)

Higher degrees by instruction

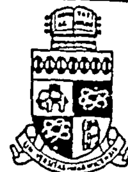
Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

100:32 **Belfast,** *Industrial engineering,* MSc/Diploma
100:33 **Birmingham,** *Engineering production and management,* MSc, 1c yr f-t; education and training for production eng and management positions in industry; *core course: systems and basic costing* systems management, costing, computing; *human resource management:* manpower systems, ergonomics, industrial law, relations etc; *quantitative methods:* applied stats, OR techniques; *1 of following 3 options: manufacturing management and technology:* design of production systems (production planning and control, plant layout, quality and reliability eng), manufacturing systems and econ analysis (numerical eng, manufacturing systems, econ considerations), manufacturing technology (production processes, materials technology); *quality and reliability:* stat quality control (acceptance sampling, control chart methods), reliability eng (systems reliability, maintenance and renewal, testing and assessment), quality and reliability management (organising, role of standards, development of reliable designs); *industrial management:* industrial economics and marketing (industrial economics, marketing, finance and accounting), industrial management (operations management, business organisation and policy, quality and reliability management), manufacturing systems and econ analysis (numerical eng, manufacturing systems, econ considerations); project reports (SERC). Contact Dr JH Gordon
100:34 **Birmingham,** *Flexible manufacturing systems,* MSc(Eng)
100:35 **City,** *Manufacturing technology,* MSc
100:36 **Coventry (Lanchester) Poly,** *Engineering for manufacturing industry,* MSc/Diploma (CNAA)
100:37 **Coventry (Lanchester) Poly,** *Engineering manufacture,* MSc (CNAA)
100:38 **Cranfield,** *Advanced manufacturing technology,* MSc *See page 447*
100:39 **Cranfield,** *CAD and CAM of production machines and systems,* MSc
100:40 **Cranfield,** *Computer integrated manufacture,* MSc
100:41 **Cranfield,** *Design of production machines and systems,* MSc
100:42 **Cranfield,** *Distribution technology and management,* MSc
100:43 **Cranfield,** *Flexible manufacturing systems incorporating CAM and control,* MSc
100:44 **Cranfield,** *Industrial engineering and production management,* MSc
100:45 **Cranfield,** *Manufacturing systems engineering,* MSc, 1 yr f-t; *syllabus:* manufacturing systems, manufacturing for new product, machining technology for manufacturing systems, design for econ manufacture, computer simulation of manufacturing, systems analysis, manufacturing quality, industrial manufacturing systems analysis, production control of batch manufacturing systems, management and professional skills, selection of adv course modules; microprocessors in machine systems, electronics and control systems, precision eng; individual and team projects in manufacturing systems eng. Contact Dr JM Kay
46 **Edinburgh,** *Advanced production engineering,* MSc
:47 **London (Imperial),** *Industrial robotics and manufacturing automation,* MSc/DIC
:48 **Loughborough,** *Flexible manufacturing systems and robotics,* MSc
100:49 **Loughborough,** *Plant engineering in the process industries,* MSc/ALUT
100:50 **Manchester (UMIST),** *Advanced manufacturing technology,* MSc/Diploma
100:51 **Manchester (UMIST),** *Manufacturing engineering,* MSc
100:52 **Newcastle Poly,** *Computer assisted manufacture,* MSc/Diploma (CNAA)
100:53 **Nottingham,** *Advanced manufacturing systems,* MSc, 1 yr f-t, or 2 yrs p-t; covering automated/CADCAM/robotics technologies and computer integrated manufacturing management. Contact Professor EN Corlett *See page 447*
100:54 **Salford,** *Manufacturing engineering,* MSc
100:55 **Strathclyde,** *Computer integrated manufacture,* MSc *See page 445*
100:56 **Sussex,** *Computer integrated manufacturing systems,* MSc
100:57 **Warwick,** *Information technology for manufacture,* MSc *See page 446*
100:58 **Warwick,** *Manufacturing systems engineering,* MSc *See page 446*

Certificates and diplomas

100 59 Cambridge, *Advanced production methods and management*, Certificate
100 60 Lancaster, *Advanced production methods and management*, Certificate
100 61 Newcastle Poly, *Automation technology*, Diploma (CNAA)
100 62 Paisley CT, *Quality engineering*, Diploma
100 63 Sheffield City Poly, *Engineering (manufacturing engineering)* Diploma (CNAA)
100 64 Strathclyde, *Production engineering and management* Diploma

THE UNIVERSITY OF WARWICK



MSc MANUFACTURING SYSTEMS ENGINEERING

THE UNIVERSITY OF WARWICK IS AT THE FOREFRONT OF Manufacturing Systems Engineering research and teaching The Warwick course has been jointly developed by academics and specialists from industry

CONTENT: The candidate selects part of the content and the course covers fields vital to the continued development of manufacturing activities including

- Manufacturing Processes, Facilities and Materials
- Information Technology
- Computer Integrated Manufacture
- Automation and Robotics
- Quantitative Techniques and Decision Analysis
- Manufacturing Control
- Financial Management and Risk Analysis

STRUCTURE: This is a full-time one-year taught course and a modular system is adopted for course work, which is continuously assessed In addition, an industrially-oriented research project, assessed by dissertation and oral examination, is undertaken

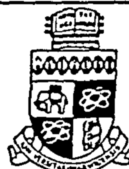
FACILITIES: The University has excellent research facilities including the largest academic CAD/CAM CENTRE in Western Europe, extensive Computer facilities, and Robotics, Control, FMS and Manufacturing Simulation laboratories

The normal minimum entry requirement is a second class honours degree or equivalent qualification in a scientific or engineering discipline

Candidates not satisfying these requirements will be considered for either the MSc, Post Graduate Certificate or Preliminary course depending on their qualifications and engineering experience

For further details please contact **Dr S Garber, Director of Studies, Manufacturing Systems Engineering Department of Engineering, University of Warwick, Coventry CV4 7AL**

THE UNIVERSITY OF WARWICK



MSc INFORMATION TECHNOLOGY FOR MANUFACTURE

THE UNIVERSITY OF WARWICK IS AT THE FOREFRONT OF Information Technology research and teaching The Warwick course has been jointly developed by academics and specialists from industry

CONTENT: The course covers fields vital to the development of Information Technology and its application to manufacturing activities including

- Computer Languages and Systems
- Information Technology
- Computer Integrated Manufacture
- Automation and Robotics
- Quantitative Techniques and Decision Analysis
- Manufacturing Control
- Financial Management and Risk Analysis

STRUCTURE: This is a full-time one-year taught conversion course and a modular system is adopted for course work, which is continuously assessed In addition, an industrially-oriented research project, assessed by dissertation and oral examination, is undertaken

FACILITIES: The University has excellent research facilities including the largest academic CAD/CAM CENTRE in Western Europe, extensive Computer facilities, and Robotics, Control, FMS and Manufacturing Simulation laboratories

The normal minimum entry requirement is a second class honours degree or equivalent qualification and SERC studentships are available

Candidates not satisfying these requirements will be considered for either the MSc, Post Graduate Certificate or Preliminary course depending on their qualifications and experience

For further details please contact **Dr S Garber, Director of Studies, Information Technology for Manufacture Department of Engineering, University of Warwick, Coventry CV4 7AL**



College of Manufacturing

1-year MSc courses in

- Industrial Robotics
- Manufacturing Systems Engineering
- CADCAM of Production Machines & Systems
- Advanced Manufacturing Technology
- Industrial Engineering
- Flexible Manufacturing Systems
- Design of Production Machines & Systems
- Management Science & Computer Applications
- Computer Integrated Manufacture

Industrial sponsorship, SERC studentships and bursaries available for 1st/2nd honours graduates

Apply to: Professor Jack Dinsdale
College of Manufacturing
Cranfield Institute of Technology
Cranfield, Bedford MK43 0AL
Telephone 0234 752756

LOUGHBOROUGH UNIVERSITY OF TECHNOLOGY



Department of Engineering Production

Postgraduate Opportunities in Manufacturing

MSc course in Computer Integrated Manufacture

engineering computer networks information systems and artificial intelligence Financial support through SERC Advanced Course Studentships and Manpower Services Commission re-training grants

funding

Further details from Professor R Bell Head of Department Department of Engineering Production Loughborough University of Technology

UNIVERSITY OF NOTTINGHAM

Department of Production Engineering and Production Management

MSc in Advanced Manufacturing Systems

- Automation and robotics
- Systems modelling and design
- Operations management and information technology
- Human resource planning

The Department also offers MPhil and PhD by research in all aspects of manufacturing technology and management

**For further information contact
Professor E N Corlett,
telephone 0602 506101 ext 2421**

More information

is in the parent edition

Graduate Studies

at your careers service

101 Engineering: traffic, transport and highway

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

101:1 **Aston,** *Civil engineering and construction,* MPhil/PhD
101:2 **Birmingham,** *Transportation and highway engineering,* MSc/PhD
101:3 **Bradford,** *Civil and structural engineering,* MPhil/PhD
101:4 **Coventry (Lanchester) Poly,** *Industrial design,* MPhil/PhD (CNAA)
101:5 **Heriot-Watt,** *Civil engineering,* MSc/PhD
101:6 **Leeds,** *Transport studies,* MEng/MPhil/PhD; supervision available in Transport Studies Inst; main interests: estimation of demand for travel, assessment of planning and policy issues for both urban and inter-urban transport. Contact Professor KM Gwilliam
101:7 **London (Imperial),** *Transport,* MPhil/PhD
101:8 **London (Queen Mary),** *Civil engineering,* MPhil/PhD
101:9 **London (UC),** *Transport,* MPhil/PhD; supervision available in Dept of Civil and Municipal Eng. research interests: transport planning (analysis of survey data, math modelling, techniques for use in developing countries); traffic management and control inc road junction design and use of information technology; road safety (accident stats, urban road safety). Contact Professor Richard Allsop
101:10 **Loughborough,** *Transport technology,* MSc/PhD
101:11 **Manchester (UMIST),** *Civil and structural engineering,* MSc/PhD
101:12 **Newcastle,** *Civil engineering,* MSc/PhD
101:13 **Nottingham,** *Civil engineering,* MPhil/PhD
101:14 **Open,** *Energy studies,* BPhil/MPhil/PhD
101:15 **Poly of Central London,** *Environment,* MPhil/PhD (CNAA)
101:16 **Poly of Wales,** *Civil engineering and building,* MPhil/PhD (CNAA)
101:17 **Salford,** *Civil engineering,* MSc/PhD *See page 450*
101:18 **Sheffield,** *Transport and traffic engineering,* MEng/PhD
101:19 **Southampton,** *Civil engineering,* MPhil/PhD
101:20 **Strathclyde,** *Civil engineering,* MSc/PhD
101:21 **Ulster,** *Transport studies,* MPhil/DPhil

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

01:22 **Birmingham,** *Highway and traffic engineering,* MSc
101:23 **Birmingham,** *Highway engineering for developing countries,* MSc
101:24 **Birmingham,** *Traffic engineering for developing countries,* MSc
101:25 **Birmingham,** *Transportation and traffic planning,* MSc
101:26 **Bradford,** *Transportation,* MSc/Diploma
101:27 **City,** *Civil engineering (highways and transport),* MSc
101:28 **City,** *Transport management,* MSc
101:29 **Cranfield,** *Air transport engineering,* MSc
101:30 **Cranfield,** *Air transport management,* MSc
101:31 **Cranfield,** *Transport studies,* MSc, 1-2c yrs f-t (hons deg in maths, physical science, economics,

stats computing economics throughout (SERC) Contact Dr JM Clark

01 32 Heriot Watt, *Transportation,* MSc/Diploma

01 33 Leeds, *Transport planning and engineering,* MSc 1 2c yrs f t 2c yrs p-t *course covers* transport planning and policy analytical methods transport eng computer programming and applications, 4 of transport infrastructure design civic design and architecture traffic management planning

KM Gwilliam

01 34

101 35

design of airports airport planning procedures environmental planning of airports airport finance, airport operations, air transport economics aircraft characteristics as they relate to airports, operations research in airport management and design applications of stat analysis to airport problems air transport legislation and regulation airport traffic operations analysis, airport labour relations management techniques for airport operators plus a project Contact RE Cavet

101 36 Newcastle, *Transport engineering and operations,* MSc/Diploma/Certificate

101 37 Poly of Central London, *Transportation planning and management* MSc (CNAA)

101 38 Royal CA, *Transport design* MA

101 39

101 40 *e 450*

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101 45

101 46

Certificates and diplomas

101:47 **Birmingham Poly,** *Transport and traffic engineering,* Diploma
101:48 **Birmingham Poly,** *Transport planning and management,* Diploma
101:49 **Middlesex Poly,** *Highway and traffic engineering,* Diploma
101:50 **Napier C (Edinburgh),** *Transportation planning in developing countries,* Diploma
101:51 **Poly of Central London,** *Transport and development,* Diploma
101:52 **Salford,** *Transport and development,* Advanced Certificate

Transport engineering and planning — UNIVERSITY OF SALFORD

Degree MSc

Length of course 1 year full time, 2 years part time

No of places 24

Description of course The course has been designed for students interested, or already active, in a career in the management and/or planning of transport facilities Graduates of the full-time course take employment typically with engineering and planning departments of local and central government, passenger transport executives and other bus operators, British Rail, freight transport operators, and transport consultants Part-time students usually have the sponsorship of employers in these fields in the North West, by virtue of the motorway network the catchment area has extended from Cumbria to Staffordshire, and from Gwynedd to West Yorkshire The aim of the course is to provide an opportunity for comprehensive and intensive study of local, regional and national problems involving *all* modes of passenger *and* freight transport Completion of the course entitles candidates to exemption from the educational requirements for Corporate Membership of the Chartered Institute of Transport Areas of study include traffic engineering, transport planning, public passenger transport, freight transport, transport system design, civic design and planning, land economics, transport economics, transport policy, statistics, operational research, and computing Assessment is by coursework, written examination, and dissertation

Entrance requirements Honours degree in any relevant subject (including civil engineering, economics, geography and mathematics) or suitable professional qualifications

Grants The full-time course has been recognised by the Science and Engineering Research Council for the award of advanced course studentships Other similar value awards and TOPs awards are also available for suitable applicants on the full-time course Early application is desirable for these awards and interviews take place throughout the year

Application and enquiries Dr P R Brookes, Administrative Officer, Department of Civil Engineering University of Salford, Salford M5 4WT Telephone 061-736 5843 ext 7125

102 Ergonomics

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies' section

102.1 [illegible]
102 2 [illegible]
102 3 [illegible]
102.4 [illegible]
102.5 **London (Royal Free)**, *Ergonomics*, MPhil/PhD
102 6 **Loughborough**, *Human sciences*, MSc/PhD, both f t and p-t univ or industry based research, consumer ergonomics inc eqpt for disabled and elderly human factors of information tech inc man-computer interaction, computer-aided design, training and processes, environmental ergonomics of vision, lighting, noise, vibration and thermal condns, human aspects of inspection and quality control, biodynamics and motor function analysis of movement, human energy studies by cardiovascular and respn tech, metabolic factors of occupational and climatic physiol applied anthropol of growth, body compsn and diet, genetic structure of populations, circadian variations in performance and sleep research, speech perception and analysis, ecol investgns of effects of pollutants in freshwater systems, ecol management studies inc fishery and conservancy factors in agriculture etc

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

102:7 [illegible] human resources, *syllabus inc* workspace and eqpt design, measurement and evaluation of industrial performance, ergonomics of inspection and process control, ergonomics of working [illegible]
102.8 [illegible]
102 9 [illegible]
102:10 [illegible]
102:11 [illegible]
102:12 [illegible] thermal environments, accidents and safety, interface and workstation design, systems ergonomics, stats and computing for human sciences, 5 mth research project, possibility of advance to PhD studies - see 'Human Sciences' section

103 Geography (including surveying)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

103:1 Aberdeen, *Geography*, MLitt/MSc/PhD
103:2 Belfast, *Geography*, MA/MSc/PhD
103:3 Birmingham, *Geography*, MA/MSc/MLitt/PhD
103:4 Birmingham Poly, *Construction and surveying*, MPhil/PhD (CNAA)
103:5 Bradford, *Environmental sciences*, MPhil/PhD
103:6 Bradford, *Languages and European studies*, MPhil/PhD
103:7 Bradford, *Yugoslav studies*, MPhil/PhD
103:8 Brighton Poly, *Geography*, MPhil/PhD (CNAA)
103:9 Bristol, *Geography*, MSc/MPhil/PhD; supervision available, research interests: *physical geog:* hillslope hydrology, mathematical run-off models and hydrology-stability coupling; Karst landforms and processes; soil and gully erosion and ecological processes in semi-arid, esp Mediterranean environments; Quaternary and recent environments of man; applied and satellite meteorology; org soils and their chem; *human geog:* location and spatial interaction of human activities in regional context and development of quantitative techniques for analysis of urban and regional systems; studies inc work on refinement of classical location theory, spatial stats, computer cartography, structure and growth of transport nets, models of spatial diffusion and inter-urban migration and perceptual environments; theoretical emphasis, students encouraged to test theory and refine techniques in applied studies and provide guidelines for regional planning decisions. Contact Professor JB Thornes
103:10 Bristol Poly, *Surveying*, MPhil/PhD (CNAA)
103:11 Cambridge, *Geography*, MSc/PhD
103:12 Cambridge, *Polar studies*, MSc/PhD
103:13 City, *Surveying*, MPhil/PhD
103:14 City of London Poly, *Geography*, MPhil/PhD (CNAA)
103:15 Coventry (Lanchester) Poly, *Geography*, MSc/PhD (CNAA)
103:16 Dundee, *Geography*, MPhil/PhD
103:17 Durham, *Geography*, MA/MPhil/MSc/PhD *See page 458*
103:18 East Anglia, *Environmental sciences*, MPhil/PhD
103:19 Edinburgh, *Geography*, MPhil/PhD
103:20 Essex IHE, *Built environment*, MPhil/PhD (CNAA)
103:21 Exeter, *Geography*, MPhil/PhD
103:22 Glasgow, *Cartography and photogrammetry*, MSc/PhD
103:23 Glasgow, *Geography*, MLitt/MSc/PhD
103:24 Huddersfield Poly, *Geographical sciences*, MPhil/PhD (CNAA)
103:25 Hull, *Geography*, MPhil/MSc/PhD *See page 458*
103:26 Keele, *Geography*, MA/PhD
103:27 Kingston Poly, *Geography*, MPhil/PhD (CNAA)
103:28 Lancaster, *Surface processes*, MPhil/PhD
103:29 Lancaster, *Geography*, MPhil/PhD
103:30 Leeds, *Geography*, MPhil/PhD
103:31 Leicester, *Geography*, MPhil/PhD
103:32 Liverpool, *Geography*, MPhil/MSc/PhD; supervision available, principal interests inc: *human geog: urban and regional econ change: planning and policy issues:* development of office and intermediate services in metropolitan areas, policy evaluation studies of regional and industrial

103 33 Liverpool Poly, *Surveying,* MPhil/PhD (CNAA)
103 34 London (Birkbeck), *Geography,* MPhil/PhD
103 35
103 36
103 37 ... pervision available research interests inc

vernacular architecture in Britain France and Germany *social/econ geog* urban social areas rural development inc agricultural geog esp Britain and tropical Africa cultural geog esp Latin America *land use* housing design derelict land recreational land use building land supply vandalism forestry use impact of motorways *regional interests* W Africa Benelux countries

103 38
103 39

regional studies, hist geog *physical geog* meteorology and climatology geomorphology *applied earth science* applied geol geomorphology and geochem *environmental science* urban and rural

103 40
103 41
103 42

tal resources Quaternary tectonics palaeoecology acid rain *computing* geog information systems and spatial analysis Contact Dr RJC Munton
103 43 London (UC), *Photogrammetry and surveying,* MPhil/PhD supervision available research activities inc analytical photogrammetry based on recent analytical plotter automation of plotting instruments and analogue plotter design camera calibration and aerial triangulation adjustment

IA Harley
103 44
103 45
103 46
103 47
103 48 Newcastle, *Geography,* MLitt MSc/PhD supervision available within following research programmes *geog and regional development studies* interests inc British urban regional

development processes, industrial innovations, telecommunications, labour market studies, office location, geog of elections, population redistribution, material culture in emerging world-economy; resource development in tropics, environmental resources and agricultural development, development process in agriculture and industry, demography and medical geog, geomorphology and sediment studies, gen field of heat and water balance at earth's surface with sp emphasis on regions in mid lats. **Contact** Dr LW Hanna

103:49 **Newcastle,** *Surveying,* MSc/PhD

103:50 **Newcastle Poly,** *Geography,* MPhil/PhD (CNAA)

103:51 **Newcastle Poly,** *Surveying,* MPhil/PhD (CNAA)

103:52 **NE London Poly,** *Land surveying,* MPhil/PhD (CNAA)

103:53 **N Staffs Poly,** *Geography,* MPhil/PhD (CNAA)

103:54 **Nottingham,** *Geography,* MPhil/PhD; supervision normally available in following research fields: *geomorphology* (coastal, glacial, tectonic), *biogeog, applied physical geog, Quaternary studies, remote sensing, economic geog* (including agricultural and industrial), *population geog, settlement geog* (urban and rural), *historical geog, medical geog*; regional interests inc Arctic, Scandinavia, Eastern and Mediterranean Europe, Soviet Union, Latin America, Middle East, East Africa (geomorphology). **Contact** Head of Department

103:55 **Open,** *Geography,* BPhil/MPhil/PhD

103:56 **Oxford,** *Geography,* MLitt/MSc/DPhil

103:57 **Plymouth Poly,** *Geographical sciences,* MPhil/PhD (CNAA); supervision available for research; interests inc: studies of small businesses in SW, stream flow monitoring, analysis of EEC common fisheries policy, soil nutrient movements. **Contact** Academic Registrar

103:58 **Poly of Central London,** *Geography,* MPhil/PhD (CNAA)

103:59 **Poly of North London,** *Geography,* MPhil/PhD (CNAA)

103:60 **Poly of Wales,** *Civil engineering and building,* MPhil/PhD (CNAA)

103:61 **Poly of Wales,** *Science,* MPhil/PhD (CNAA)

103:62 **Portsmouth Poly,** *Geography,* MPhil/PhD (CNAA)

103:63 **Reading,** *Geography,* MPhil/PhD

103:64 **St Andrews,** *Geography,* MSc/MPhil/PhD

103:65 **St Paul & St Mary's C,** *Geography,* MPhil/PhD (CNAA)

103:66 **Salford,** *Geography,* MSc/PhD *See page 457*

103:67 **Sheffield,** *Geography,* MPhil/PhD; supervision available, research interests: *physical geog:* climatological studies, geomorphology, landform-soil relationships and soil characteristics, land classification relationships, remote sensing, biogeography, hydrology and fluvial studies; *human geog:* rural settlement and land use, urban geog, transport problems, industrial geog, environmental perception, population geog and hist demography, agricultural geog, regional science, resource management, remote sensing, regional development problems in Britain. **Contact** Secretary for Graduate Admissions (either Physical or Human Geography)

103:68 **Sheffield City Poly,** *Environmental and recreational studies,* MPhil/PhD (CNAA)

103:69 **Southampton,** *Geography,* MPhil/PhD

103:70 **Stirling,** *Environmental science,* MSc/PhD; supervision available; research interests: geomorphology of crystalline terrains; tropical and palaeotropical landforms; Quaternary environmental change in humid tropics of W Africa; application of geomorphology to land resource mapping; land evaluation, esp for planning purposes; glacial and Quaternary geomorphology; Arctic and Alpine environments; fluvial geomorphology and sedimentology; flood prediction; hydrology of Cairngorms; water quality in Scotland; pedology; variability of soil structure and morphology under different managements; soil hydrology and water chem; effects of tree spp on soil genesis; microclimatology and hydrometeorology; applied climatology and hydrology; urban climates; weather-related hazards; data sources and data handling in local climatology; thermal regimes in inter-tidal mudflats and in upland soils; dynamic modelling of growth and development of urban and regional systems; environmental modelling; role of local planning authorities in management of natural resources; environmental impact assessment; integrated rural development; environmental remote-sensing applications. **Contact** Dr P Selman

103:71 **Strathclyde,** *Civil engineering,* MSc/PhD

103:72 **Strathclyde,** *Geography,* MSc/PhD

103:73 **Sunderland Poly,** *Geography,* MPhil/PhD (CNAA)

103:74 **Sussex,** *Geography,* MPhil/DPhil

103:75 **Thames Poly,** *Geography,* MPhil/PhD (CNAA)

03 76
03 77
03 78
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03 80 MPhil/DPhil
03 81
03 82
03 83
03 84

planning econ geog of energy industries *social and urban geog* residential areas urban crime housing policy, social problems in cities race relations social need and provision ideas of

Basin India and S America Contact Professor N Stephens

03 85 **Wolverhampton Poly,** *Geography* MA/MPhil/PhD (CNAA/various univs)

03 86 **Worcester CHE,** *Geography,* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

03 87 **Cambridge,** *Polar studies,* MPhil

03 88 **Cranfield (Silsoe),** *Applied remote sensing,* MSc

03 89 **Dundee,** *Remote sensing, image processing and applications,* MSc

03 90 **Durham,** *Human geography of the Middle East and Mediterranean,* MA *See page 458*

03 91 **Edinburgh,** *Geographical information systems,* MSc/Diploma *See page 458*

03 92 **Edinburgh,** *Remote sensing and image processing,* MSc/Diploma

03 93 **Glasgow** *Topograph c science,* MAppSci

03 94

03 95 **Kingston Poly,** *Earth science and the environment,* MSc (CNAA)

03 96 **Leeds,** *Human geography,* MA 1 yr f t, *course content* methodological foundations of geog

03 97
03 98
03 99
3 100
3 101
3 102
3 103

Engineering

103:104 **London (UC),** *Numerical methods in photogrammetry and surveying,* MSc/Diploma

103:105 **London (UC),** *Photogrammetry,* MSc/Diploma, 1c yr f-t (MSc), 9 mths f-t (Diploma) (deg in eng, physics, maths, geog, land surveying or topographic science req); course inc: theory and practical aspects of aerial photography and its use in cartography, relevant math and computational techniques, treatment of principles and design of plotting instruments; individual project and report (NERC). Contact Professor IA Harley

103:106 **London (UC),** *Remote sensing,* MSc

103:107 **London (UC),** *Surveying,* MSc/Diploma, 1c yr f-t (MSc), 9 mths f-t (Diploma) (deg in cognate subj req for MSc); *course content:* eng surveying, topographical surveying, cartography, geodetic survey, cadastral survey, e-m distance measurement and relevant math and computational techniques, intro to land registration; individual project and report (NERC). Contact Professor IA Harley

103:108 **Loughborough,** *Geography and education,* MSc

103:109 **Nottingham,** *Engineering surveying,* MSc

103:110 **Oxford,** *Geodesy,* MSc

103:111 **Salford,** *Applied geography,* MSc *See page 457*

103:112 **Salford,** *Geography,* MA/MSc/Diploma *See page 457*

103:113 **Sunderland Poly,** *Geography and development,* MA (CNAA)

103:114 **Ulster,** *Geography,* MSc

103:115 **Wales (Lampeter),** *Geography,* MA

Certificates and diplomas

103:116 **Bristol Poly,** *Surveying,* Research Certificate/Diploma

103:117 **Dundee,** *Digital mapping and remote sensing,* Diploma

103:118 **East Anglia,** *Environmental sciences,* Diploma

103:119 **Edinburgh,** *Geography,* Diploma

103:120 **Glasgow,** *Cartography,* Diploma

103:121 **Glasgow,** *Digital mapping and automated cartography,* Diploma

103:122 **Glasgow,** *Geography,* Diploma

103:123 **Glasgow,** *Photogrammetry,* Diploma

103:124 **Glasgow,** *Surveying,* Diploma

103:125 **London (LSE),** *Geography,* Diploma

103:126 **NE London Poly,** *Land administration and surveying,* Certificate/Diploma

103:127 **Plymouth Poly,** *Hydrographic surveying,* Diploma (CNAA)

103:128 **Salford,** *Geography,* Advanced Certificate

103:129 **Strathclyde,** *Geography,* Diploma

103:130 **Wales (Swansea),** *Topographic science,* Diploma, 1 yr f-t; also MSc available, 2 yrs f-t (hons deg in cognate subj plus demonstrated interest and/or experience in subj req for MSc; hons deg in science preferred for Diploma); course covers surveying, photogrammetry and remote sensing, *syllabus:* techniques of data gathering, data processing and data presentation for map and chart compilation; all aspects of work involved in production of topographical maps, thematic maps and navigation charts; project for Diploma, thesis for MSc. Contact Professor N Stephens

Degree MPhil/MSc/MLitt/PhD in geography
MSc and MA in meteorology and climatology

Description of course Research interests in following areas some specific projects named *climatology and applied meteorology* local weather forecasting satellite meteorology impact of climatic changes on economy and society *geomorphology* slope evolution and hydrology *biogeog* palaeoecology and environmental archaeology trampling and erosion *agricultural geog* management of moorland areas *recreation* recreational land use in Britain and overseas *urban geog* physical form of cities *transport geog* motorway accessibility and urban mobility *regional planning* migration port development *hist geog* evolution of settlement and land use in British Isles and overseas *W Midlands* urban demographic and industrial geog *W Europe* Common Market countries Scandinavia W Mediterranean *USSR* urbanisation and econ developments in newly settled lands *W Africa* mining and labour migration in Sierra Leone and Mauritania *S America* colonisation urban and rural settlement *S America* industrial development of Chile Venezuela and other states

Applications and enquiries The Postgraduate Tutor Department of Geography The University of Birmingham PO Box 363 Birmingham B15 2TT



DEPARTMENT OF GEOGRAPHY

The Univers ty of Salford is close to the centre of Manchester with good access to Manchester Internat onal Airport The Department occupies accommodat on extensively refurb shed and re-equ pped n 1985/86

Research MA, MSc, MPhil (1 year full t me 2 years part t me) PhD (3 years full t me 5 years part t me) Entry req rements good hon s degree [illegible]

special sat on in problems of cl mate water resources and so l management under irr gat on Other interests problems of urban geomorphology in Greater Manchester h stor cal geography of med eval England reg onal stud es in Scand navia EEC E Europe and Afr ca remote sens ng

Taught courses **MA, MSc, D ploma in Geography** 3 years p-t (MA/MSc) 2 years p t (D ploma) 1 year f t for overseas cand dates course content ph l issues in geog geog research methodology 3 opt ons from comparative urban plann ng reg onal plann ng urbanisat on in develop ng countr es geog pol cy analys s and modell ng transport geog and development env ronmental systems satell te remote sens ng in cl matolog cal and earth resource stud es nutrient cycl ng geomorphology of beaches local stud es and sources in h st geog econ and social geog of EEC w th sp ref to France trop cal Afr ca (geog perspect ves) coursework assessment d ssertat on for MA/MSc **MSc, Diploma in Transport and Development** 1 year f t for overseas cand dates course content transport geog and development transport management and market ng research methods either urban sat on in develop ng countr es or regional plann ng coursework assessment d ssertat on for MSc. **MSc Applied Geography** 1 year f t 2-5 yrs p t cho ce of s x modules ava lable n the modular stud es MA/MSc scheme coursework assessment and d ssertat on **MSc Urban Studies** 1 yr f t 2-5 yrs p t urban stud es and research methods compulsory plus four appropriate modules ava lable in the modular s ud es MA/MSc scheme coursework assessment and d ssertation Further deta ls from the Postgraduate Tutor Department of Geography Un vers ty of Salford Salford M5 4WT

GEOGRAPHY AT DURHAM

MA/MPhil/MSc/PhD (full-time or part-time) by thesis: supervision available in: *overseas area studies*, focusing on aspects such as natural resources, climate, development, population, urbanisation, rural settlement, agricultural systems, political geography of the Middle East, Africa, Latin America, EEC, USSR; *human geography of the UK:* population, employment, regional economic change, built environment, environmental perception, historical geography, geography and education; *physical environment:* geomorphology and geomorphometry, Quaternary studies, Biogeography and resource management, soils and land capability, climate and water resources; *modern techniques:* remote sensing, data analysis and mathematical modelling, automated and statistical cartography, geographical information systems.

MA in the Geography of the Middle East and Mediterranean: 1 year full-time taught course, examination and dissertation; study of one or both regions, project work, seminars, fieldwork, problems of political, economic and social change.



HULL UNIVERSITY

Department of Geography

The Department provides supervision for the degrees of MSc and MPhil (either by research or by coursework and research) and the degree of PhD by research for well-qualified full-time and part-time students across a range of human and physical geography.

In **human geography** research interests include urban social geography (peripheral groups, ethnic residential patterns, crime, health care and housing); recreation and leisure, and transport geography. In **physical geography** research interests include geomorphology; soil formation and weathering; Quaternary studies; island biogeography; and hydrology.

The Department's Research Plan provides for special training in the following fields: **Environmental Degradation** (vegetation, soils, drainage basin erosion); **Natural Resource Management** (energy, water, fisheries, estuarine and coastal management); **Cartographic Information Systems** (digital mapping, computer cartography); and **Regional Systems** with reference to both the developed world (eg Western Europe) and to developing areas (eg SE Asia).

Applications and enquiries Professor R C Ward, Department of Geography, The University, Hull HU6 7RX.



Department of Geography

MSc in Geographical Information Systems

A core course covers the theory and implementation of geographical information systems using relational data base technology.

This is complemented during the first two terms by special subject modules covering the following topics

i) Computer programming
ii) Digital mapping and computer graphics
iii) Statistical analysis, modelling and simulation
iv) Remote sensing applications
v) Planning and public policy implications of GIS technology.

The second half of the course is devoted to individual research for the MSc thesis.

Further details obtainable from
R G Healey
Department of Geography
Drummond Street
Edinburgh EH8 9XP

DEPARTMENT OF GEOGRAPHY UNIVERSITY OF SHEFFIELD

OPPORTUNITIES FOR GRADUATE RESEARCH

The Department occupies a modern, purpose-designed and well-equipped building. Located close to the centre of the University's main site, it is within 2 km of Sheffield's central business district and only 10 km from the edge of the Peak District National Park. With 23 academic staff, 12 technicians and 3 librarians it is one of the largest departments of geography in the UK.

Graduate students register for degrees by research either in the Faculty of Pure Science, for the degree of PhD or MPhil (in physical geography), or the Faculty of Social Sciences, for the degree of PhD or MPhil (in human geography). Both faculties offer a one-year Diploma course in geography. This is designed for those students from overseas who require further training in research skills and advanced course work before proceeding to a research degree.

Supervision for graduate research in **Physical Geography** is available in:

Biogeography
Climatology
Geomorphology
Hydrology and Fluvial Studies
Landform-Soil Relationships
Remote Sensing

Supervision for graduate research in Human Geography is available in:

Industrial Location
Political & Electoral Geography
Population Studies
Regional Economic Systems
Resource Analysis & Management
Transport Studies
Urban Studies
Historical Demography

Further details of the research facilities and methods of application may be obtained by writing to *either:* Secretary for Graduate Admissions (Physical Geography) *or* Secretary for Graduate Admissions (Human Geography), Department of Geography, University of Sheffield, Sheffield S10 2TN, United Kingdom

Index by subject headings

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104 Maritime studies

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section

104:1 **East Anglia,** *Fisheries,* MPhil/PhD
104:2 **Liverpool,** *Marine biology,* MSc/PhD; current research interests in which supervision available: respiratory physiol of bivalve molluscs and crustaceans, energy flow in inter-tidal ecosystems, inter-tidal ecology esp biotic interactions, larval and spore ecology, zoo-plankton, biochem genetics of marine organisms, population studies of fish and shellfish, parasitology of marine fishes, physiol ecology and gen biol of *Crustacea, in situ* studies by diving of sub-tidal algae and animals, seaweed ecology, physiol aspects of algal growth, cultivation of marine algae, rearing and growth of *Crustacea* and fish, marine pollution studies. Contact Professor TA Norton
104:3 **Liverpool,** *Oceanography,* MSc/PhD
104:4 **Liverpool Poly,** *Shipping and maritime studies,* MPhil/PhD (CNAA)
104:5 **Plymouth Poly,** *Maritime studies,* MPhil/PhD (CNAA); supervision available for research in following depts: *marine science:* estuarine processes, boundary layer meteorology, navigational safety and watch keeping, magnetism of galaxy, fishery science, maritime communications; *marine technology:* safety of small craft, trawler design, ship manoeuvring; *shipping and transport:* maritime transport, law, econ, geog and commerce — organisation, manning, portfolio planning and international trade; *transport studies.* Contact Academic Registrar
104:6 **St Andrews,** *Maritime studies,* MLitt/MPhil/PhD
104:7 **St Andrews,** *Marine biology,* MSc/PhD
104:8 **Salford,** *Marine technology,* MSc/PhD
104:9 **Wales (Bangor),** *Marine biology,* MSc/PhD
104:10 **Wales (Swansea),** *Oceanography,* MSc/PhD
104:11 **Wales (UWIST),** *Law,* LLM PhD
104:12 **Wales (UWIST),** *Maritime studies,* MSc/PhD; opportunities for research in following fields: computers/information technology in shipping and ports; causal factors of collisions and strandings, performance of marine vehicles, stability and strength applications; maritime training technology; applications of simulation; *maritime transport:* port operations and planning, ship operations, economics, law, developing country studies; *harbour and offshore developments:* harbour conservancy, sedimentology, exploitation of offshore minerals; *maritime geog:* international trade, geog of ports, maritime cartography; human relations on board ship, management studies in ports and shipping, *law of the sea* (in conjunction with Centre for Marine Law and Policy). Contact Professor J King

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses.

104:13 **City,** *Shipping and finance,* MSc/Diploma
104:14 **Glasgow,** *Marine science,* MAppSci/Diploma
104:15 **Liverpool,** *Maritime civil engineering,* MEng/Diploma
104:16 **Liverpool Poly,** *Maritime studies,* MSc (CNAA)
104:17 **London (LSE),** *Sea-use law, economics and policy-making,* MSc
104:18 **London (UC),** *Marine geophysics,* MSc
104:19 **Manchester,** *Maritime civil engineering,* MSc/Diploma

Plymouth Poly, *International shipping*, MSc (CNAA) 1 yr f t 2 or 3 yrs p t (relevant deg alternative quals and experience considered non attendance bridging course may be req) *stage 1* shipping policy (organisation corporate planning and marketing) shipping econ and finance QM in shipping (systems simulation correlation and regression forecasting) shipping environment (industry structure and markets law and operations) *stage 2* shipping policies (strategy management control systems and international marketing) ship finance and international monetary ... markets (public private and govt funding financing structures taxation monetary ...) organisation systems and international institutions) shipping organisation and operation ... shipping law contracts ... behaviour industrial relation transport systems and development) shipping programme research carriage documentation insurance liability) interdisciplinary support programme dissertation Contact Academic Registrar

104 21 **Royal Naval EngC**, *Maritime defence technology* MSc Diploma (CNAA)
104 22 **St Andrews**, *Maritime studies* MLitt Diploma
104 23 **Wales (Bangor)**, *Fisheries biology and management* MSc Diploma
104 24 **Wales (Bangor)**, *Marine archaeology* MSc Diploma *See page 462*
104 25 **Wales (Bangor)**, *Marine biology* MSc *See page 462*
104 26 **Wales (Bangor)**, *Marine geotechnics* MSc Diploma *See page 462*
104 27 **Wales (Bangor)**, *Ocean electronics* MSc Diploma
104 28 **Wales (Bangor)**, *Physical oceanography* MSc Diploma *See page 462*
104 29 **Wales (Bangor)**, *Water resources geophysics* MSc Diploma *See page 462*
104 30 **Wales (Swansea)**, *Applied marine science* MSc Diploma
104 31 **Wales (UWIST)**, *Law* LLM
104 32 **Wales (UWIST)**, *Maritime studies* MSc 1 yr f t (deg or other approved professional qual req) designed for senior management and those aspiring to become policy makers and important decision makers in maritime industry *subjs of study* OR and computing financial appraisal ports and shipping policy ports and shipping development plus dissertation Contact Prof ... King

Certificates and diplomas

104 33 **City of London Poly**, *Shipping* Diploma
104 34 **Humberside CHE (Hull)**, *Fisheries* Diploma
104 35 **Liverpool**, *Marine pollution chemistry* Diploma
104 36 **London (UC)**, *Shipping law*, Diploma
104 37 **Plymouth Poly**, *Hydrographic surveying* Diploma (CNAA) 1 yr f t (relevant deg or approved alternative qual req) course designed to meet needs of persons employed in the control of survey firms eng port authorities civil eng and lodging companies in addition to the contr... of survey firms eng port authorities civil eng and lodging companies in addition to the ... mainly in support (offshore oil and in shore and offshore hydrographic survey operations mainly in support ... *course content* inc hydrographic industry doing exploration development and production phases ... information transfer oceanography survey trigonometrical survey geodesy computers and information electronic maintenance geol ... marine geophysics survey maths meteorology law electronic maintenance geol ... practical work Contact Academic Registrar
104 38 **Plymouth Poly**, *Management studies (shipping)* DMS (CNAA) 8 mths f t (deg or equiv and min age of 23 candidates over 27 with at least 4 yrs professional experience con... designed for employees in shipping industry systematic coverage of management skills knowledge needed for shipping management highlighting managerial techniques req to ... current developments in international shipping environment *stage 1* environment and ... tion (resource management shipping environment and business organisation) ... management (management mathematics and accounting computer studies) shipping personnel management (shipping and port operations marketing techno econ shipping law personnel ... employee relations) continuous assessment for progress to stage 2 *stage 2* business decision making (policy and planning operational decision making) shipping practice and port management handling system fleet management productivity and efficiency applications) shipping practice II (shipping markets finance shipping law and maritime project exams Contact Academic Registrar
104 39 **Wales (UWIST)**, *Port and shipping administration* Diploma

105 Materials science and technology (including metallurgy and ceramics)

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

105 1 Aston, *Civil engineering and construction*, MPhil/PhD

105 2 Bath, *Materials science*, MPhil/PhD

105 3 Birmingham [illegible]

alloys, *electronic materials* thermo electric materials thermomagnetic cooling *commodity markets* selective hedging in metal markets *polymers* materials testing of safety headware shrinkage and residual stresses in plastic extrusions *machining* machinability of high conductivity Cu *fracture and fatigue* of metallic materials growth of fatigue cracks from surfaces *powder metallurgy* powder metallurgy high speed and low speed steels *heat treatment* nitrocarburising of steel wire plasma carburising laser surface treatments *metal forming* formability of high [illegible] hanisms in [illegible] titanium

105 4 [illegible]

105 5 Brunel, *Materials technology* MPhil/PhD

105 6 Camborne SMines, *Mining studies*, MPhil/PhD (CNAA)

105 7 Cambridge, *Metallurgy and materials science*, MSc/PhD

105 8 City, *Mechanical engineering*, MSc/PhD

105 9 City of London Poly, *Metallurgy and materials*, MPhil/PhD (CNAA)

105 10 Coventry (Lanchester) Poly, *Materials science*, MSc/MPhil/PhD (CNAA)

105 11 Cranfield, *Materials* MSc/PhD

105 12 Cranfield, *Materials handling and distribution systems*, MPhil/MSc/PhD

105 13 Derbyshire CHE (Derby), *Materials science*, MPhil/PhD

105 14 Kingston Poly, *Chemistry*, MPhil/PhD (CNAA)

105 15 Leeds, *Ceramics*, MEng/MPhil/PhD supervision available current research inc ceramics for high temp engines fabrication and properties of silicon nitride and N ceramics ceramics for chem energy storage ion conduction in oxides dielectric and piezo-electric ceramics ceramic fabrication processes sintering grain growth microstructure development fabrication science of clay based ceramics glasses refractories industrial ceramics and cement Contact Professor RJ Brook

105 16 Leeds, *Metallurgy*, MPhil/PhD

105 17 Liverpool, *Metallurgy and materials science* MEng/PhD main areas of research *semiconductor materials* nanometer scale electron beam lithography structural and chem analysis of interfaces in homojunction and heterojunction devices and super lattices surface structure and epitaxial layer quality modelling of dislocation distributions during crystal growth *polymer based composite materials* energy absorbing composites injection moulding of fibre reinforced thermoplastics and thermosets finite element analysis of composite structures stress corrosion cracking in GRP, [illegible]

Engineering and

in metals and alloys, computer simulation of defect structures in crystalline solids; solidification processes in metals and alloys. Contact RC Pond

105:18 London (Imperial), *Metallurgy and materials science*, MPhil/PhD *See page 468*

105:19 London (Queen Mary), *Materials*, MPhil/PhD; research interests inc: *metals:* cyclic deformation of bcc metals, structure and creep properties of Ni-based alloys, microplasticity in alloys for precision instrument applications; *polymers:* synthesis, structure and properties of polymer single-crystal fibres, crystallisation of polymers at ambient and high pressures, fracture of polymers, impact behaviour of polymers and plastic containers, structure and properties of rubbers, molecular fracture; *composites:* work with conventional composites such as glass-fibre reinforced plastics, exotic materials such as carbon fibre-metal matrix composites, polymer composites reinforced with polymer fibres, reinforced cements; *biomaterials:* structure and properties of bone and development of bone replacement materials, characterisation of structure and morphology of coal; *adhesion:* work with conventional adhesives, new techniques developed to test adhesive joints and to study adhesion of ice to surfaces and of materials to skin, characterisation of metal surfaces pretreated for adhesive bonding, long-term degradation of adhesive joints. Contact Professor W Bonfield

105:20 Loughborough, *Materials engineering and design*, MTech/MPhil/PhD; supervision available; major research areas: high temp and nuclear materials, materials protection, composites, processing; current and recent projects inc: applied design and development studies, tension perturbations in pliable materials in production machinery, measurements of elastic constants of materials at high temp, assessment of factors affecting quality of strip produced by powder rolling processes, chem kinetics and factors affecting production of fine metal powders from reduction of metallic cpds, high temp oxidation of alloys, performance and behaviour of coatings systems, high-speed electroplating, electroforming, coatings for titanium and refractory metals, mechanical properties of paint films, ductile fracture of metals, fracture of rigid thermoplastics, hybrid composite materials, applications of materials in biomedical eng, electron probe micro-analysis of low atomic number elements, assessment of resinous materials for replication of eng surfaces; laser cutting and welding, injection moulding of metallic and non metallic materials, electronic packaging, engineering ceramics. Contact Professor IA Menzies

105:21 Manchester, *Metallurgy*, MSc/PhD

105:22 Manchester (UMIST), *Corrosion and protection*, MSc/PhD

105:23 Manchester (UMIST), *Metallurgy and materials science*, MSc/PhD *See page 468*

105:24 Manchester Poly, *Metallurgy*, MPhil/PhD (CNAA)

105:25 Manchester Poly, *Polymer technology*, MPhil/PhD (CNAA)

105:26 Newcastle, *Metallurgy and engineering materials*, MSc/PhD

105:27 Newcastle Poly, *Materials technology*, MPhil/PhD (CNAA)

105:28 N Staffs Poly, *Ceramic technology*, MPhil/PhD (CNAA); supervision available for research in: rheology of ceramic materials, mechanical properties of ceramics and glass ceramics, prosthetic applications of ceramics, use of novel raw materials for ceramic applications and glaze stress problems. Contact Dr W Ryan

105:29 Nottingham, *Metallurgy and materials science*, MPhil/PhD

105:30 Open, *Materials science*, BPhil/MPhil/PhD

105:31 Oxford, *Metallurgy and materials science*, MSc/DPhil; supervision available, current research interests inc: mechanical props of and crystal defects of metals, alloys and ceramics; composites, superplasticity, creep, fatigue, fracture; structure and properties of interfaces; crystallography and kinetics of phase transformation; solidification of metals and alloys; amorphous metals and alloys; field-ion microscopy and atom probe analysis; corrosion; hydration and development of strength of cements; defects in and electrical props of semiconductors and devices; magnetic props of materials and microstructure; structure and props of superconducting materials; radiation damage in metals, ceramics, and semiconductors; electronic effects on plasticity of strong solids; materials problems with solid-state batteries; microstructure and props of catalysts; development and application of electron microscopy and micro-analysis to study of microstructure and defects, ultra-high resolution imaging of crystal structures; electron-beam lithography; ultrasonic microscopy; theoretical studies of electronic properties of perfect and imperfect solids; metallurgy in archaeology. Contact Professor Sir Peter Hirsch

105:32 Poly of Wales, *Civil engineering and building*, MPhil/PhD (CNAA)

105:33 Sheffield, *Ceramics, glasses and polymers*, MScTech/PhD

105:34 Sheffield, *Metallurgy*, MPhil/PhD; supervision and supporting course work available in wide ranging research areas (typically involving 70 to 80 individual projects) covering new materials and processes, improvements to traditional materials and assessment of behaviour in service; new

matter effect of environment in corrosion fracture fatigue and creep fatigue interactions other studies relate to thermodynamics of alloys diffusion and phase transformations development and evaluation of coating and welding processes **Contact** Professor GW Greenwood

105 35 **Sheffield City Poly,** *Industrial metallurgy* PhD (CNAA)
105 36 **Sheffield City Poly,** *Metallurgy* MPhil/PhD (CNAA)
105 37 **Southampton,** *Civil engineering* MPhil/PhD
105 38 **South Bank Poly** *Chemical engineering* MPhil/PhD (CNAA)
105 39 [illegible]
105 40 [illegible]

relation to constitution processing hist structure and service environment fabrication constitution and evaluation of metal matrix composite materials *solidificat on processing and phase transformation* development of atomiser with ultrasonic gas delivery dies for production of rapidly

materials adv techniques in use inc surface analysis by x ray photoelectron spectroscopy (XPS) and scanning auger microscopy (SAM) *analytical electron microscopy* **Contact** Profesor AP Miodownik

105 41 **Teesside Poly,** *Metallurgy* MPhil/PhD (CNAA)
105 42 **Thames Poly,** *Materials science and physics* MPhil/PhD (CNAA)
105 43 **Wales (Bangor)** *Electrical materials science* MSc/PhD
105 44 **Wales (Cardiff),** *Metallurgy and materials science* MSc/PhD
105 45 **Wales (Swansea)** *Materials engineering* MSc/PhD supervision available research interests inc *metal ma ufacturing technology* analysis of fabrication processes by f nite element methods microstructure evolution during metal forming processes *propert es of metals* creep and fracture of metals and alloys restoration of properties by reheat treatment of creep damaged super alloys creep l fe prediction and remnant l fe assessment for steels and super alloys creep of welded

tures and mechanical properties of bone molecular structures of polymers **Contact** Dr WJ Evans

105 46 **Warwick,** *Physics* MSc/MPhil/PhD
105 47 **Wolverhampton Poly,** *Materials and physics* MPhil/PhD (CNAA)

Higher degrees by instruction

Candidates are expected to hol l a good honours degree in the subject of the co irse A research project (normally lasting three months) with submission of a written report d ssertation or thesis is normally a part of these courses

105 48 **Birmingham,** *Metallurgical processes and management* MSc(Eng) 1c yr f t max 3 yrs p-t (hons

processes, melt treatments, casting eng); surface heat treatment processes (design aspects of surface hardening, thermal techniques, controlled atms, ferritic thermochem treatments, austenitic thermochem treatments, metallising treatments); deformation behaviour and mechanical working of metals (production of mild steel sheets, secondary working processes, physical metallurgy of steel); business and financial management in metals industry (corporate finance, management finance, metal markets and materials purchasing); major research project (SERC). Contact Professor RE Smallman

105:49 **Brunel,** *Non-destructive testing of materials*, MSc/Diploma, 1 yr f-t (hons deg in physics, eng or related subj or approved qual req for MSc, lower quals req for Diploma); adv professional education; *syllabus:* mechanical properties of materials, electrical and magnetic properties of materials, thermal properties of materials, optics, acoustics, ionising radiation, defects in materials, radiological testing, ultrasonic testing, visual methods of testing, thermal methods, penetrant methods, electrical and magnetic methods, pressure and leak testing, gen considerations. Contact Professor DC Imne

105:50 **Brunel,** *Welding and adhesive bonding of engineering materials*, MSc/Diploma

105:51 **City of London Poly,** *Corrosion science and engineering*, MSc/Diploma

105:52 **Cranfield,** *Aerospace materials engineering*, MSc

105:53 **Cranfield,** *Metallurgical engineering*, MSc

105:54 **Cranfield,** *Polymer engineering*, MSc

105:55 **Dundee,** *Physics and technology of amorphous materials*, MSc

105:56 **Lancaster,** *New polymer synthesis*, MSc

105:57 **Leeds,** *Engineering ceramics*, MSc *See page 468*

105:58 **Loughborough,** *Materials protection*, MSc/ALUT

105:59 **Manchester (UMIST),** *Corrosion science and engineering*, MSc/Diploma

105:60 **Manchester (UMIST),** *Materials protection*, MSc/ALUT

105:61 **Manchester (UMIST),** *Metallic and ceramic materials*, MSc/Diploma *See page 468*

105:62 **Newcastle,** *Mechanical properties of solids*, MSc

105:63 **Newcastle Poly,** *Materials engineering*, MSc (CNAA)

105:64 **Royal CA,** *Polymer engineering and design*, MDes/MTech/Certificate

105:65 **Sheffield,** *Advanced metallurgy*, MMet; taught course, 1 yr f-t; p-t course by arrangement; min entry req second-class hons deg or equiv in metallurgy, materials science, eng, physics or chem, or following Diploma in Metallurgy – see course (105:79); course has structured options permitting some specialisation in topics ranging from techniques for laboratory research, through subjects related to industrial research and development to those of particular concern in production management, lectures are supplemented by practical demonstrations, problem solving classes and by case studies, research project or critical survey and evaluation of industrial area forms basis of dissertation which is essential component of course. Contact Professor GW Greenwood

105:66 **Sheffield,** *Ceramics*, MScTech/Diploma *See page 469*

105:67 **Sheffield,** *Glasses*, MScTech/Diploma *See page 469*

105:68 **Sheffield,** *Materials*, MScTech/Diploma *See page 469*

105:69 **Sheffield City Poly,** *Metallurgical process management*, MSc (CNAA)

105:70 **Strathclyde,** *Instrumental methods of analysis*, MSc/Diploma

105:71 **Thames Poly,** *Electronic materials and devices*, MSc (CNAA)

105:72 **Thames Poly,** *Molecular science of materials*, MSc (CNAA)

105:73 **Ulster,** *Polymer engineering*, MSc

105:74 **Wales (Swansea),** *Metal manufacturing technology*, MSc, 1 yr f-t (deg in physical sciences, eng or related topic req), *course inc* foundry techniques, metallurgy of fabrication processes, numerical methods, metal forming analysis, computer-based drafting and machining, gas turbine manufacturing technology, technological and econ trend analysis, industrial participation; research project and dissertation. Contact Dr WJ Evans

105:75 **Warwick,** *Solid state physics and materials science*, MSc/Diploma

Certificates and diplomas

105 76 **Cambridge,** *Metallurgy and materials science*, Certificate
105 77 **Leeds,** *Ceramics*, Diploma
105 78 **Leeds,** *Metall*[illegible] Diploma
105 79 [illegible]

Greenwood
105 80 **Thames Poly,** *Electronic and molecular properties of materials* Diploma (CNAA)
105 81 **Ulster,** *Plastics technology*, Diploma



IMPERIAL COLLEGE
of Science and Technology



Department of
Metallurgy and Materials Science

Metallurgy and Materials Science, MPhil/PhD, supervision available, current research interests in following areas, some specific projects named, *chem and process metallurgy* reduction of iron ore with gases, carbide processing, production of carbide materials from colliery waste, *electrometallurgy* chem and electrochem reactions in molten salts, *corrosion* high temp corrosion of coal-fired power station heat exchanger tubes, *physical processing of metals* physical properties of continuous casting fluxes, deformation of two-phase alloys, *phase transformations and phase equilibria* dynamic observations of solid state phase transformations, *structure–property relationships* microchem and deformation characteristics of IMI 829, fatigue crack initiation and growth in Al–Li based alloys, *fracture behaviour of metallic materials* flake graphite cast iron, non-metallic materials electrodeposition of refactory metals, toughening mechanisms in zirconia ceramics, *electrical materials* scanning electron microscope cathodoluminescent and conductive mode analyses of semiconducting materials and multilayer structures

Details from: **Professor D W Pashley, Department of Metallurgy and Materials Science, Imperial Collge, London SW7 2BP.**

UNIVERSITY OF LEEDS
Engineering Ceramics, MSc

A one-year advanced taught course with experimental project work, to provide post-graduate level education in aspects of ceramic science and technology fundamental to the development, production and application of advanced ceramic materials in mechanical and electrical engineering.

Core component: supplies the essential basis of understanding for the materials' processing, structures and properties. **Two options:** opportunity to specialise in the mechanical engineering or electrical engineering properties and uses of these materials, in accordance with the career intended.

The course includes laboratory, computing, electron optical work, industrial seminars and an experimental project to provide first-hand experience of these materials.

For further information contact:
Dr F L Riley, Department of Ceramics
Leeds University, Leeds LS2 9JT



University of Manchester and UMIST
Department of Metallurgy and Materials Science



MSc/PhD by Research Currently supervised topics include mechanical behaviour and fracture, ceramic materials, powder metallurgy, phase transformations and microstructure, solidification, electron optics, interfaces, thermal transport properties, oxidation and corrosion, chemical metallurgy, metal production, materials processing, phase equilibria, alloy thermodynamics, process metallurgy, electronic materials.

MSc (Metallic and Ceramic Materials) Course A one-year course by examination and dissertation is available to suitably qualified graduates and consists of two terms of lectures, laboratory classes and tutorials followed by a six-month supervised research project.

Further details from:

Dr F H Hayes,
Joint University and UMIST
Metallurgy Building
Grosvenor Street
Manchester M1 7HS

106 Planning

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

106:1 **Birmingham,** *Urban and regional studies,* MSocSc, MPhil PhD
106:2 **Birmingham Poly,** *Planning and landscape,* MPhil PhD (CNAA)
106:3 **Bradford,** *Environmental sciences,* MPhil PhD
106:4 **Bristol Poly,** *Town and country planning,* MPhil PhD (CNAA)
106:5 **Cambridge,** *Land economy,* MLitt MSc PhD, supervision available, *research interests:* analysis of processes of regional, urban and rural change primarily in economically-adv nations; stress on interactions, within legal framework, of private and public agents that shape local econ, political and environmental welfare; seeks to analyse and evaluate range of public policy mechanisms that attempt to modify processes of local change; staff interests inc urban policy analysis, urban-rural shifts in employment, regional policy, central-local financial relationships, housing policy, operation of land market, [illegible] land loss, land development process, British agricultural policy; specialist library, access to Univ computing facilities. Contact Dr ID Hislee
106:6 **Coventry (Lanchester) Poly,** *Urban and regional planning,* MPhil PhD (CNAA)
106:7 **Duncan of Jordanstone CA (Dundee),** *Architecture and town planning,* MSc/PhD (Dundee)
106:8 **Dundee,** *Town and regional planning,* MSc PhD
106:9 **East Anglia,** *Environmental sciences,* MPhil PhD
106:10 **Edinburgh,** *Urban design and regional planning,* MPhil PhD
106:11 **Essex IHE,** *Built environment,* MPhil PhD (CNAA)
106:12 **Glasgow,** *Town and regional planning,* MLitt PhD, supervision and doctoral programme available, *broad research interests:* evolution and workings of urban and regional systems in which planning intervenes, planning policies for physical environment, local economy, housing and social issues, *sp interests:* regional, urban and rural development; planning and land development; new technology, transport planning, planning theory and techniques. Contact Professor DV Donnison
106:13 **Heriot-Watt,** *Housing,* MSc PhD, supervision available, major research interests: legal and social aspects of housing policy, ethnic minorities, tenant participation, historical evolution of housing policies, rehabilitation and conservation. Contact John A Craig
106:14 **Heriot-Watt,** *Town and country planning,* MSc PhD; supervision available, major research interests: legal and social aspects of policy, public participation; comparative studies of operation of planning in European countries and N America; changing urban hierarchies; historical growth of town and country planning. Contact John A Craig
106:15 **Kent,** *Urban studies,* MPhil PhD
106:16 **Leeds Poly,** *Town planning,* MPhil PhD (CNAA)
106:17 **Liverpool,** *Civic design,* MPhil PhD
106:18 **Liverpool Poly,** *Town and country planning,* MPhil/PhD (CNAA)
106:19 **London (LSE),** *Regional and urban planning studies,* MPhil/PhD
106:20 **London (UC),** *Architecture and planning,* MPhil/PhD
106:21 **Manchester,** *Town and country planning,* MPhil/PhD
106:22 **Newcastle,** *Town and country planning,* MSc/MLitt/PhD
106:23 **Nottingham,** *Planning studies,* MPhil/PhD
106:24 **Open,** *Urban and regional research,* BPhil MPhil/PhD
106:25 **Oxford Poly,** *Planning,* MPhil PhD (CNAA)
106:26 **Poly of Central London,** *Environment,* MPhil/PhD (CNAA)
106:27 **Poly of North London,** *Environmental design,* MPhil/PhD (CNAA)
106:28 **Reading,** *Planning,* MPhil PhD
106:29 **Sheffield,** *Town and regional planning,* MA/PhD

106 30 **Sheffield City Poly,** *Urban and regional studies,* MPhil/PhD (CNAA)
106.31

106 32

106 33
106 34 **Trent Poly,** *Town and country planning,* MPhil/PhD (CNAA)
106 35 **Wales (UWIST),** *Town planning,* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course. A research project (normally lasting three months) with submission of a written report, dissertation or thesis is normally a part of these courses

106 36 **Aberdeen,** *Rural and regional resources planning,* MSc
106·37 **Belfast,** *Town and country planning,* MSc/Diploma
106 38 **Birmingham,** *Housing,* MSocSc
106 39 **Birmingham,** *Industry, employment and planning,* MSocSc
106 40 **Birmingham,** *Urban and regional studies,* MSocSc *See page 474*
106 41 **Bristol Poly,** *Town planning,* BTP (CNAA)
106 42 **Cambridge,** *Land economy,* MPhil, 1 yr f t, instruction in selected aspects of research and research ... by thesis and oral exam. Contact Dr ID Hodge
106 43
106 44
106 45
106 46 ... ging deg with ... ed by RTPI, *course content yr 1* social science for planning (econ, social and political processes), practice of planning (hist and theory of planning, public administration and planning practice, physical environment, planning law, plan making), planning techniques (analytical and communication techniques), choice of options from urban econ development, regional development, rural planning, housing, politics, transport, education, *yr 2* process and policy, dissertation. Contact Professor DV Donnison
106 47
106 48 ... ects and town ... skills of archi- ... s, design elements project work basic studies, design, comprehensive design project. Contact John A Craig
106 49 **Liverpool** *Civic design,* MCD/Diploma, 24 mths f t, 3 yrs p-t (MCD) 9 mths f t, 3 yrs p-t ... development of practical

106:50 **Liverpool,** *Metropolitan planning,* MA
106:51 **Liverpool,** *Regional science,* MA
106:52 **London (Birkbeck),** *Urban and regional planning studies,* MSc
106:53 **London (LSE),** *Regional and urban planning studies,* MSc
106:54 **London (UC),** *Town planning,* MPhil
106:55 **London (UC),** *Urban development planning,* MSc
106:56 **Loughborough,** *Industry and public planning policy,* MSc
106:57 **Manchester,** *Town and country planning,* BTP
106:58 **Manchester,** *Town and country planning,* MTPI
106:59 **Manchester,** *Town and country planning,* MTP
106:60 **Newcastle,** *Planning studies,* MA
106:61 **Newcastle,** *Town and country planning,* MPhil
106:62 **Newcastle Poly,** *Urban studies,* MA/Diploma (CNAA)
106:63 **Nottingham,** *Environmental planning,* MA/Diploma
106:64 **Nottingham,** *Environmental planning for developing countries,* MA
106:65 **Nottingham,** *Urban design for developing countries,* MA/Diploma
106:66 **Oxford Poly,** *Urban design,* MA (CNAA) *See page 475*
106:67 **Oxford Poly,** *Urban planning,* MSc/Diploma *See page 475*
106:68 **Oxford Poly,** *Urban planning studies,* MSc (CNAA) *See page 475*
106:69 **Poly of Central London,** *Transportation planning and management,* MSc (CNAA)
106:70 **Poly of Central London,** *Urban design,* MA (CNAA)
106:71 **Reading,** *Environmental planning,* MPhil/Diploma
106:72 **Robert Gordon's IT (Aberdeen),** *Rural and regional resources planning,* MSc (Aberdeen)
106:73 **Sheffield,** *Town and regional planning,* MA/Diploma, 2 yrs f-t (MA), 6 terms f-t (Diploma); 2 yr course provides an education relevant to practice of planning and aims to promote both academic excellence and professional competence; in second yr opportunities for specialist and research training are provided which build on knowledge of, and professional training in, core of planning discipline provided in first part of course; course is fully recognised by RTPI and inc 2 periods of supervised work experience placements in local planning authorities undertaken as integral part of course; *course content: terms 1 and 2:* basic grounding in planning, placement; *term 3:* planning policy at various spatial scales, placement; *term 4:* planning in action in terms of current planning practice (UK and overseas); *term 5:* units from wide range of sp subj options; *term 6 (Diploma):* project; *term 6 and vac (MA):* dissertation or major design.
106:74 **Stirling,** *Housing administration,* MSc
106:75 **Strathclyde,** *Regional development,* MSc/Diploma *See page 475*
106:76 **Strathclyde,** *Urban and regional planning,* MSc/Diploma, 2 yrs f-t (MSc), 3 yrs p-t (Diploma) (hons deg in geog, economics, architecture, land management or other relevant subj req; HND with experience for Diploma); *course content: module 1:* basic classes (theory and phil of planning, process and practice of planning, disciplines in planning, methods in planning), applied studies to develop understanding of subjs and introduce skills of analysis and plan and policy making, comparative planning; *module 2:* choice of options from: strategic policy making, regional planning, physical planning issues in developing nations, developmental control, urban design, planning for pedestrians, hist of planning, ideology of planning; comparative planning, thesis; *module 3:* adv classes, adv applied studies; thesis for MSc and dissertation for Diploma; RTPI recognised. Contact Professor VA Wannop *See page 475*
106:77 **Strathclyde,** *Urban development,* MSc/Diploma *See page 475*
106:78 **Sussex,** *Urban and regional studies,* MA
106:79 **Wales (UWIST),** *Town planning,* MSc
106:80 **Wales (UWIST),** *Urban planning in developing countries,* MSc
106:81 **York,** *Conservation studies,* MA

Certificates and diplomas

106:82 **Birmingham,** *Urban and regional studies,* Diploma
106:83 **Birmingham Poly,** *Landscape architecture,* Diploma
106:84 **Birmingham Poly,** *Environmental management,* Diploma
106:85 **Birmingham Poly,** *Housing studies,* Diploma

106 86 **Birmingham Poly,** *Town planning*, Diploma
106 87 **Bristol Poly,** *Housing*, Diploma
106 88 **East Anglia,** *Environmental sciences*, Diploma
106 89 **Edinburgh,** *Planning studies (developing countries)*, Diploma
106 90 **Edinburgh,** *Urban design and regional planning*, Diploma
106 91 **Essex IHE,** *Environmental planning*, Diploma
106 92 [illegible]
106 93 [illegible]

Contact John A Craig
106 94 **Heriot Watt,** *Town and country planning*, Diploma 2 yrs f t 3 yrs p t *foundation section* theory

106 95 **Liverpool Poly,** *Environmental planning* Diploma
106 96 **Liverpool Poly,** *Environmental planning*, Diploma
106 97 [illegible]
106 98 [illegible]
106 99 [illegible]
106 100 **Oxford Poly,** *Planning*, Diploma *See page 475*
106 101 **Oxford Poly,** *Urban design*, Diploma *See page 475*
106 102 **Poly of Central London,** *Town planning*, Diploma
106 103 **Poly of Central London** [illegible] Diploma
106 104 [illegible]
106 105 [illegible]
106 106 **Sheffield City Poly,** *Housing administration* Diploma (CNAA)
106 107 **Sheffield City Poly,** *Urban and regional planning*, Diploma (CNAA)
106 108 [illegible]
106 109 [illegible]
106 110 [illegible]

UNIVERSITY OF MANCHESTER

DEPARTMENT OF TOWN & COUNTRY PLANNING

PLANNING LANDSCAPE RESEARCH CONTINUOUS PROFESSIONAL DEVELOPMENT

This multi-disciplinary Department offers a wide range of programmes in the planning and landscape fields; including professionally-qualifying courses, specialist Master's Degrees, post-experience provision and research studies.

MTPl/BTP
(Two years full-time)
RTPI recognised professional courses for holders of hons degrees in related disciplines.

MTP
(Two years full-time)
RTPI recognised advanced course for holders of 3-year hons degrees in Town and Country Planning.

MA/MPhil/PhD
Research programmes in planning and landscape topics, concerning both British and overseas problems.

MLD/BLD
(Two years full-time)
Landscape Institute-recognised professional course in Landscape Design for holders of hons degrees in related disciplines.

MA(LM)
(One year full-time or two years part-time)
Professional course for graduates with experience in Landscape Management.

MA(LD)
(One year full-time)
Advanced course for qualified landscape architects.

Enquiries and applications to: Graduate Admissions Tutor, Department of Town & Country Planning, University of Manchester, Manchester M13 9PL
Tel: 061-273 3333 ext 3626 (Planning), ext 3628 (Landscape)

University of Newcastle upon Tyne

Town & Country Planning
Landscape Design
Urban Design

Degree
MPhil/MSc

Length of course
24 months full-time (MPhil),
12 months full-time
12 months part-time (MSc)

Description of courses
The MPhil courses provide a professional education in either planning or landscape which is fully recognised by the professional institutions concerned In both areas the full range of subjects required for this purpose is covered and in addition special training in research methods and opportunities for specialised study are provided

The MSc is a research degree the courses provide individual facilities for advanced study and research in depth of particular aspects of the fields of planning, landscape, urban design, economic planning and computing for planning purposes

All applications and enquiries to
Head of Department Department of Town & Country Planning The University Newcastle upon Tyne NE1 7RU

UNIVERSITY OF BIRMINGHAM



MSocSc: Urban and Regional Studies

MSocSc: Tourism and Leisure Studies

The Centre is both a multidisciplinary research institute and a postgraduate teaching department Current research includes work on Housing; Recreation and Tourism, Employment, Industrial Location and Planning. The Centre offers a wide range of opportunities for study for postgraduate degrees. For the MSoc Sc degree by coursework and dissertation, students are required to follow one of the Centre's specialisms Housing, Leisure and Tourism, or Industry, Employment and Planning

Entrance requirements good honours degree in an appropriate subject, or professional qualifications and experience

Enquiries about this or other courses to the Graduate Admissions Tutor, Centre for Urban and Regional Studies, J G Smith Building, University of Birmingham, PO Box 363, Birmingham B15 2TT.
Telephone 021-472 1301 ext 2696

Postgraduate awards?

Read the editorial on pages 17–22

Abbreviations

See pages 31–33

107 Printing and printing technology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

107:1 **London C Printing,** *Graphic design,* MPhil/PhD (CNAA): supervision available for research in computer graphics, electronic imagery, computer directed composing, audio visual studies, typography, typeface design and character generation. Contact B Bedwell

107:2 **London C Printing,** *Printing or graphic technology,* MPhil/PhD (CNAA)

107:3 **Manchester Poly,** *Graphics technology,* MPhil/PhD (CNAA)

107:4 **Reading,** *Typography and graphic communication,* MPhil/PhD

107:5 **Watford C,** *Printing and packaging technology,* PhD (CNAA)

Certificates and diplomas

107:6 **London C Printing,** *Design and media technology,* Diploma (CNAA), 1 yr f-t (deg, grad diploma in art and design or equiv qual req); *subjs of study:* computer graphics, electronic imagery, computer directed composing, audio visual studies, typography, typeface design and character generation; self-directed project in conjunction with set areas of study. Contact B Bedwell

108 Textile science and technology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research Information about the periods of study required for research degrees is given in the Entrance requirements and periods of study paragraphs in the introductory Postgraduate studies section

108 1 Huddersfield Poly, *Textile industries*, MPhil/PhD (CNAA)
108 2 Leeds, *Textile industries*, MPhil/PhD
108 3 [illegible]
108 4 [illegible]

fabrics textile design and textile economics and management current projects inc fatigue fracture and heat setting of fibres application of microprocessors to textile manufacturing computer aided textile design, structure and properties of non woven fabrics dyeing and finishing mechanics of textile processes (esp yarn spinning (inc open-end) yarn texturing weaving stitch [illegible]

108 5 [illegible]
108 6 [illegible]
108 7 Scottish C Textiles (Galashiels), *Textile technology and clothing technology* MPhil/PhD
108 8 Strathclyde, *Pure and applied chemistry* MSc/PhD

Higher degrees by instruction

Candidates are expected to hold a good honours degree in the subject of the course A research project (normally lasting three months) with submission of a written report dissertation or thesis is normally a part of these courses

108 9 Leeds, *Textile dyeing and finishing*, MSc
108 10 Leeds, *Textile science and engineering*, MSc
108 11 Manchester (UMIST), *Textile technology*, MSc/DipTechSci 1c yr f t 2c-4 yrs p-t *course content* structure properties and manufacture of textile materials inc recent developments in methods of manufacture in addn to knitting and weaving stitch bonding needle bonding and other methods [illegible] it processing weaving knitting dyeing and [illegible] physics choice of options practical work [illegible]

108 12 [illegible]

Certificates and diplomas

108 13 Leeds, *Clothing technology*, Diploma
108 14 Leeds, *Textile design* Diploma
108 15 [illegible]
108 16 [illegible]
108 17 [illegible]
108 18 [illegible]

109 Total technology

Higher degrees by research

Candidates are expected to hold a good honours degree in a subject relevant to that in which they propose to carry out research. Information about the periods of study required for research degrees is given in the 'Entrance requirements and periods of study' paragraphs in the introductory 'Postgraduate studies' section.

109:1 **Aston,** *Total technology,* MPhil/PhD
109:2 **Bradford,** *Electrical and electronic engineering,* PhD
109:3 **Cranfield,** *Fluid engineering: total technology,* PhD
109:4 **Lancaster,** *Engineering,* MPhil/PhD
109:5 **Loughborough,** *Total technology,* PhD
109:6 **Manchester (UMIST),** *Total technology,* MSc/PhD *See below*
109:7 **Sheffield City Poly,** *Industrial metallurgy,* PhD (CNAA)
109:8 **Strathclyde,** *Marine technology,* PhD
109:9 **Strathclyde,** *Total technology,* PhD

Institutions

UNIVERSITY OF ABERDEEN

OPPORTUNITIES FOR POSTGRADUATE STUDY

The University welcomes applications for Postgraduate Study by Research in all the Departments in its six Faculties of Arts and Social Sciences, Science (including Agriculture, Forestry), Engineering, Divinity, Law (including Land Economy), and Medicine. In addition, it offers the following Taught Postgraduate Courses:

Taught Postgraduate Courses (Masters)

Agricultural Economics, Crop Science, Animal Nutrition, Animal Production, Modern Botanical Methods, Silicate and Solid State Chemistry, Ecology, Immunobiology, Information Technology, Mathematics, Medical Physics, Physics, Instrument Design, Petroleum Geology, Clinical Pharmacology, Rural and Regional Resources Planning, Soil Science, Biblical Languages, Christianity in the Non-Western World, Education, English Language as a Literary Medium, Modern German Studies, Scottish Literature, Strategic Studies, Analytical Chemistry, Human Nutrition, Region and Nation in Literature, Electrical Power Engineering, Land Economy, Forest Management, Music Performance, Commercial Law, Environmental Law, Rights, Property and Justice, Medico-Legal Problems, Roman Law and Roman-Dutch Law.

Diplomas and Certificates

Accountancy Studies, Advanced Chemistry, Agricultural Economics, Animal Nutrition, Applied Social Studies, Clinical Pharmacology, Education, Forestry, Immunology, Land Economy, Legal Practice (Scots Law), Mathematical Sciences, Medical Physics, Medical Radio-Diagnosis, Modern Botanical Methods, Pastoral Studies and Applied Theology, Philosophy, Psychotherapy, Soil Science, Analytical Chemistry, Electrical Power Engineering, Advanced Physics, Marine and Fisheries Science.

Detailed information about each of the above courses available from the Postgraduate Office, University of Aberdeen, Aberdeen AB9 1FX.

Course advertisement

Aberdeen

University of Aberdeen, University Office, Regent Walk, Aberdeen AB9 1FX
Telephone: Aberdeen (0224) 40241

Further information: Secretary

Architectural Assoc S (London)

Architectural Association School of Architecture, 34-6 Bedford Square, London WC1B 3ES
Telephone: 01-636 0974

Further information: Graduate School Administrator

Aston

University of Aston in Birmingham, Gosta Green, Birmingham B4 7ET
Telephone: 021-359 3611

Further information: Registry

Bath

University of Bath, Claverton Down, Bath BA2 7AY
Telephone: Bath (0225) 61244

Further information: Secretary and Registrar

Bath CHE

Bath College of Higher Education, Newton Park, Bath BA2 9BN
Telephone: Saltford (02217) 3701

Further information:

Belfast

Queen's University of Belfast, University Road, Belfast BT7 1NN
Telephone: Belfast (0232) 245133

Further information: Secretary

Birmingham

University of Birmingham, PO Box 363, Birmingham B15 2TT
Telephone: 021-472 1301

Further information: Assistant Registrar of Faculty

Birmingham Poly

City of Birmingham Polytechnic, Perry Barr, Birmingham B42 2SU
Telephone: 021-356 6911

Further information: Head of appropriate department

Bishop Grosseteste C (Lincoln)

Bishop Grosseteste College, Lincoln LN1 3DY
Telephone: Lincoln (0522) 27347

Further information: Admissions Secretary

Blackburn C

Blackburn College, Feilden Street, Blackburn, Lancashire BB2 1LH
Telephone: Blackburn (0254) 55144

Further information: Registrar

Bolton IHE

Bolton Institute of Higher Education, Deane Road, Bolton BL3 5AB
Telephone: Bolton (0204) 28851

Further information: Head of Department

Bradford

University of Bradford, Richmond Road, Bradford BD7 1DP
Telephone: Bradford (0274) 733466

Further information: Secretary of School

Bradford and Ilkley CC

Bradford and Ilkley Community College Great Horton Road Bradford West Yorkshire BD7 1AY

Telephone Bradford (0274) 753026

Further information Admissions Officer

Bretton Hall CHE

Bretton Hall College of Higher Education West Bretton Wakefield West Yorkshire WF4 4LG

Telephone Bretton (092 485) 261

Further information Secretary for In Service Education

Bridgwater C

Bridgwater College Bath Road Bridgwater Somerset TA6 4PZ

Telephone Bridgwater (0278) 455464

Further information Director

Brighton Poly

Brighton Polytechnic, Moulsecoomb Brighton BN2 4AT

Telephone Brighton (0273) 693655

Further information Registrar

Bristol

University of Bristol Senate House Bristol BS8 1TH

Telephone Bristol (0272) 24161

Further information Registrar and Secretary

Bristol Poly

Bristol Polytechnic Coldharbour Lane Frenchay Bristol BS16 1QY

Telephone Bristol (0272) 656261

Further information Academic Registrar

Brunel

Brunel University Uxbridge Middlesex UB8 3PH

Telephone Uxbridge (0895) 37188

Further information Academic Secretary

Buckingham

University of Buckingham Buckingham MK18 1EG

Telephone Buckingham (0280) 814080

Further information Admissions Office

Buckinghamshire CHE

Buckinghamshire College of Higher Education Queen Alexandra Road High Wycombe HP11 2JZ

Telephone High Wycombe (0494) 22141

Further information Chief Administrative Officer

Bulmershe CHE (Reading)

Bulmershe College of Higher Education Woodlands Avenue Earley Reading RG6 1HY

Telephone Reading (0734) 663387

Further information Academic Registrar

Camborne SMines

Camborne School of Mines Trevenson Pool Redruth Cornwall TR15 3SE

Telephone Camborne (0209) 714866

Further information Registrar

Cambridge

University of Cambridge Board of Graduate Studies 4 Mill Lane Cambridge CB2 1RZ

Telephone Cambridge (0223) 58933

Further information Secretary

Cambridge Inst Ed

Institute of Education, Cambridge, Shaftesbury Road, Cambridge CB2 2BX
Telephone: Cambridge (0223) 369631

Further information: Secretary

Cambridgeshire CA & T

Cambridgeshire College of Arts and Technology, Cambridge CB1 1PT
Telephone: Cambridge (0223) 63271

Further information: Course Tutor

Central SA & D (London)

Central School of Art and Design, Southampton Row, London WC1B 4AP
Telephone: 01-405 1825

Further information: Registrar

Chelsea SA

Chelsea School of Art, Manresa Road, London SW3 6LS
Telephone: 01-351 3844

Further information: Senior Administrative Officer

Chester C

Chester College, Cheyney Road, Chester CH1 4BJ
Telephone: Chester (0244) 375444

Further information: Admissions Secretary

Christ Church C (Canterbury)

Christ Church College, North Holmes Road, Canterbury, Kent CT1 1QU
Telephone: Canterbury (0227) 65548

Further information: Admissions Tutor

City

Further information Academic Registrar

City of London Poly

City of London Polytechnic, 117 9 Houndsditch London EC3A 7BU
Telephone 01 283 1030

Further information Post Graduate Studies Unit, 31 Jewry Street London EC3N 2EY

College of Librarianship (Wales)

College of Librarianship Wales Llanbadarn Fawr Aberystwyth Dyfed SY23 3AS
Telephone Aberystwyth (0970) 3181

Further information Registrar

Cornwall CF & HE

Cornwall College of Further and Higher Education Redruth Cornwall TR15 3RD
Telephone Redruth (0209) 712911

Further information Registrar

Coventry (Lanchester) Poly

Coventry Lanchester Polytechnic Priory Street Coventry CV1 5FB
Telephone Coventry (0203) 24166

Further information Academic Registrar

Cranfield

Further information Secretary and Registrar

Cranfield (Silsoe)

Silsoe College Silsoe Bedford MK45 4DT
Telephone Silsoe (0525) 60428

Further information Student Recruitment Executive

Crewe and Alsager CHE

Crewe and Alsager College of Higher Education Crewe Road Crewe CW1 1DL
Telephone Crewe (0270) 583661

Further information Marketing Publicity Officer

Croydon C

Croydon College Fairfield Croydon CR9 1DX
Telephone 01 688 9271

Further information Principal

Derbyshire CHE (Derby)

Derbyshire College of Higher Education Kedleston Road Derby DE3 1GB
Telephone Derby (0332) 47181

Further information Registry

Doncaster Met IHE

Doncaster Metropolitan Institute of Higher Education Scawsby Doncaster DN5 7UD
Telephone Doncaster (0302) 63421

Further information Head of Department of Management Studies

Dorset IHE (Poole)

Dorset Institute of Higher Education Wallisdown Road Wallisdown Poole BH12 5BB
Telephone Bournemouth (0202) 524111

Further information Academic Secretary

Duncan of Jordanstone CA (Dundee)

Duncan of Jordanstone College of Art, Perth Road, Dundee DD1 4HT
Telephone: Dundee (0382) 23261

Further information: Student Services Officer

Dundee

University of Dundee, Dundee DD1 4HN
Telephone: Dundee (0382) 23181

Further information: Secretary

Dundee CT

Dundee College of Technology, Bell Street, Dundee DD1 1HG
Telephone: Dundee (0382) 27225

Further information: Depute College Secretary

Dunfermline CPE

Dunfermline College of Physical Education, Cramond Road North, Edinburgh EH4 6JD
Telephone: 031-336 6001

Further information: Secretary

Durham

University of Durham, Old Shire Hall, Durham DH1 3HP
Telephone: Durham (0385) 64466

Further information: Registrar and Secretary

Ealing CHE

Ealing College of Higher Education, St Mary's Road, Ealing, London W5 5RF
Telephone: 01-579 4111

Further information: Admissions Unit (Room 982)

University of Durham

Estimated total students 1986/87
5,000

Postgraduate students
650

Teaching staff
456 full-time

Main subject areas
Arts; Education; Engineering and Applied Science; Middle Eastern and Oriental Studies; Sciences; Social Sciences

Further information
The Registrar and Secretary
University of Durham
Old Shire Hall
Durham DH1 3HP

Durham is situated in north-east England. London is 250 miles to the south (three hours by train), Edinburgh 120 miles to the north. Newcastle upon Tyne, a city of a million people, is 15 miles away. The cathedral and castle dominate the centre of the small city of Durham. As well as the castle, now University College, the university uses many of the older buildings in the city centre. Some departments and newer colleges stand in parkland nearby.

The colleges
All teaching is given in departments, but every student is a member of a college. *The colleges provide accommodation for 80% of students, meals, libraries and social facilities to supplement those provided by the University.* The Graduate Society provides for the special needs of graduate students.

Academic information
Higher degrees All departments admit students to read for higher degrees, masters doctorates, by research. The department where higher degrees can be obtained only by research and the submission of a thesis are: chemistry, economics, French, German, law, history, palaeography and diplomatic, philosophy, physics, psychology, Russian, Spanish and zoology. The *following departments offer taught courses, in addition to degrees by thesis,* usually of one year's full-time study: anthropology, engineering and applied science (applied physics, computing, electronics, engineering), archaeology, botany, business studies, classics and ancient history, education, English studies (including TEFL), geography, geological sciences, mathematics, music, Oriental studies, physics, politics, sociology and social policy, and theology.

East Anglia

University of East Anglia Norwich NR4 7TJ
Telephone Norwich (0603) 56161

Further information Registrar and Secretary

Edge Hill CHE (Ormskirk)

Edge Hill College of Higher Education St Helens Road Ormskirk Lancashire L39 4QP
Telephone Ormskirk (0695) 75171

Further information Senior Tutor

Edinburgh

University of Edinburgh Secretary s Office Old College South Bridge Edinburgh EH8 9YL
Telephone 031-667 1011

Further information Secretary to the University

Essex

University of Essex Wivenhoe Park Colchester CO4 3SQ
Telephone Colchester (0206) 862286

Further information Admissions Officer

Essex IHE

Essex Institute of Higher Education Victoria Road South Chelmsford CM1 1LL
Telephone Chelmsford (0245) 354491

Further information Associated Schools of Education Sawyers Hall Lane Brentwood Essex CM15 9BT

Exeter

University of Exeter Northcote House The Queen s Drive Exeter EX4 4QJ
Telephone Exeter (0392) 263263

Further information Secretary of Faculties

Exeter C

Exeter College Hele Road Exeter EX4 4JS
Telephone Exeter (0392) 77977

Further information Head of Department of Business Studies

Farnborough CT

Farnborough College of Technology Boundary Road Farnborough Hampshire GU14 6SB
Telephone Farnborough (0252) 515511

Further information Vice Principal

Garnett C

Garnett College Downshire House Roehampton Lane London SW15 4HR
Telephone 01 789 6533

Further information Principal

Duncan of Jordanstone CA (Dundee)

Duncan of Jordanstone College of Art, Perth Road, Dundee DD1 4HT
Telephone: Dundee (0382) 23261

Further information: Student Services Officer

Dundee

University of Dundee, Dundee DD1 4HN
Telephone: Dundee (0382) 23181

Further information: Secretary

Dundee CT

Dundee College of Technology, Bell Street, Dundee DD1 1HG
Telephone: Dundee (0382) 27225

Further information: Depute College Secretary

Dunfermline CPE

Dunfermline College of Physical Education, Cramond Road North, Edinburgh EH4 6JD
Telephone: 031-336 6001

Further information: Secretary

Durham

University of Durham, Old Shire Hall, Durham DH1 3HP
Telephone: Durham (0385) 64466

Further information: Registrar and Secretary

Ealing CHE

Ealing College of Higher Education, St Mary's Road, Ealing, London W5 5RF
Telephone: 01-579 4111

Further information: Admissions Unit (Room 982)

University of Durham

Estimated total students 1986/87
5,000

Postgraduate students
650

Teaching staff
456 full-time

Main subject areas
Arts; Education; Engineering and Applied Science; Middle Eastern and Oriental Studies; Sciences, Social Sciences

Further information
The Registrar and Secretary
University of Durham
Old Shire Hall
Durham DH1 3HP

Durham is situated in north-east England. London is 250 miles to the south (three hours by train), Edinburgh 120 miles to the north. Newcastle upon Tyne, a city of a million people, is 15 miles away. The cathedral and castle dominate the centre of the small city of Durham. As well as the castle, now University College, the university uses many of the older buildings in the city centre. Some departments and newer colleges stand in parkland nearby.

The colleges
All teaching is given in departments, but every student is a member of a college. The colleges provide accommodation for 80% of students, meals, libraries and social facilities to supplement those provided by the University. The Graduate Society provides for the special needs of graduate students.

Academic information
Higher degrees All departments admit students to read for higher degrees, masters doctorates, by research. The department where higher degrees can be obtained only by research and the submission of a thesis are: chemistry, economics, French, German, law, history, palaeography and diplomatic, philosophy, physics, psychology, Russian, Spanish and zoology. The following departments offer taught courses, in addition to degrees by thesis, usually of one year's full-time study: anthropology, engineering and applied science (applied physics, computing, electronics, engineering), archaeology, botany, business studies, classics and ancient history, education, English studies (including TEFL), geography, geological sciences, mathematics, music, Oriental studies, physics, politics, sociology and social policy, and theology.

East Anglia

University of East Anglia Norwich NR4 7TJ
Telephone Norwich (0603) 56161

Further information Registrar and Secretary

Edge Hill CHE (Ormskirk)

Edge Hill College of Higher Education St Helens Road Ormskirk Lancashire L39 4QP
Telephone Ormskirk (0695) 75171

Further information Senior Tutor

Edinburgh

University of Edinburgh Secretary s Office Old College South Bridge Edinburgh EH8 9YL
Telephone 031-667 1011

Further information Secretary to the University

Essex

University of Essex Wivenhoe Park
Colchester CO4 3SQ
Telephone Colchester (0206) 862286

Further information Admissions Officer

Essex IHE

Essex Institute of Higher Education Victoria Road South Chelmsford CM1 1LL
Telephone Chelmsford (0245) 354491

Further information Associated Schools of Education Sawyers Hall Lane Brentwood Essex CM15 9BT

Exeter

University of Exeter Northcote House The Queen s Drive Exeter EX4 4QJ
Telephone Exeter (0392) 263263

Further information Secretary of Faculties

Exeter C

Exeter College Hele Road Exeter EX4 4JS
Telephone Exeter (0392) 77977

Further information Head of Department of Business Studies

Farnborough CT

Farnborough College of Technology Boundary Road Farnborough Hampshire GU14 6SB
Telephone Farnborough (0252) 515511

Further information Vice Principal

Garnett C

Garnett College Downshire House
Roehampton Lane London SW15 4HR
Telephone 01 789 6533

Further information Principal

Glasgow

University of Glasgow, Glasgow G12 8QQ
Telephone: 041-339 8855

Further information: Registrar

Glasgow CT

Glasgow College of Technology, Cowcaddens Road, Glasgow G4 0BA
Telephone: 041-332 7090

Further information: Academic Registrar

Glasgow SA

Glasgow School of Art, 167 Renfrew Street, Glasgow G3 6RQ
Telephone: 041-332 9797

Further information: Academic Registrar

Gloucestershire CAT (Gloucester)

Gloucestershire College of Arts and Technology, Oxstalls Lane, Gloucester GL2 9HW
Telephone: Gloucester(0452) 26321

Further information: Registrar

Gwent CHE (Newport)

Gwent College of Higher Education, Faculty of Management and Professional Studies, Allt-yr-yn Avenue, Newport, Gwent NP9 5XA
Telephone: Newport (0633) 51525

Further information: Dean

Harlow C

Harlow College, College Gate, The High, Harlow, Essex CM20 1LT
Telephone: Harlow (0279) 441288

Further information: Registrar

Harper Adams AgC

Harper Adams Agricultural College, Newport, Shropshire TF10 8NB
Telephone: Newport (0952) 811280

Further information: Academic Registrar

Hatfield Poly

Hatfield Polytechnic, PO Box 109, College Lane, Hatfield, Hertfordshire AL10 9AB
Telephone: Hatfield (07072) 79000

Further information: Academic Registrar

Heriot-Watt

Heriot-Watt University, Edinburgh EH1 1HX
Telephone: 031-225 8432

Further information: Deputy Registrar

Hertfordshire CA & D

Hertfordshire College of Art and Design, Hatfield Road, St Albans, Hertfordshire AL1 3RS
Telephone: St Albans (0727) 64414

Further information: Principal

Hertfordshire CHE (Watford)

Hertfordshire College of Higher Education, Wall Hall, Aldenham, Watford, Hertfordshire WD2 8AT
Telephone: Radlett (092 76) 2511

Further information: Registrar

Huddersfield Poly

The Polytechnic, Queensgate, Huddersfield HD1 3DH
Telephone: Huddersfield (0484) 22288

Further information: Dean of Research

Hull

University of Hull, Hull HU6 7RX
Telephone: Hull (0482) 46311

Further information: Postgraduate Office

THE UNIVERSITY OF HULL

Postgraduate courses and research

The University offers supervision for research degrees (PhD MPhil MMus LLM MEd and MEng) in the following subject areas

Accounting Adult Education American Stud es Applied Mathematics Applied Physics Biochemistry Chemistry Classics Computer Studies Drama Economic and Social History Economics and Commerce Educational Studies Electronic Engineering Engineering Design and Manufacture English Estuarine and

Postgraduate taught courses

The following courses are available to students seeking a qualification which may be obtained after one year s full time study

MA

Adult Educat on Class cs Crim nology Ed cat onal St d es E opean Co operat on and Development French

Seventeenth Century French Studies Social Work Studies Sociology of Developing Societies South East Asian Studies Theatre and Media Studies Theological Understanding of Industrial Society Victorian Literature Women and Literature

MSc

Analytical Science Health Administration and Research Industrial Applied Mathematics Industrial M neralogy Industrial Psychology Micropalaeontology Management Sciences Occupational Psychology Philosophy of Science Stochastic Analysis

LLM

International Law

MMus

Analysis Composition Performance Musicology

MSc(Econ)

Economics Economics and Econometrics Labour Economics

BA(Ed) and MEd

A wide range of courses is available in the Department of Adult Education and Educat onal Stud es

Most of the courses mentioned above include the preparation of a dissertation of up to 20 000 words Some of these courses are available on a part time basis to students who live within reasonable travelling distance of the University

Further information available from the Postgraduate Office University of Hull North Humberside HU6 7RX
Please specify the department or course which interests you

Overseas Student Bursaries

Overseas students applying to read for research degrees and who are liable to pay fees at the full cost student rate may be el gible for a bursary of £1 000 pa

Humberside CHE (Hull)

Humberside College of Higher Education, Cottingham Road, Hull HU6 7RT
Telephone: Hull (0482) 41451

Further information: Admissions

Keele

University of Keele, Keele, Staffordshire ST5 5BG
Telephone: Newcastle (Staffs) (0782) 621111

Further information: Registrar

Kent

University of Kent at Canterbury, Canterbury CT2 7NZ
Telephone: Canterbury (0227) 66822

Further information: Registrar

King Alfred's C (Winchester)

King Alfred's College, Winchester SO22 4NR
Telephone: Winchester (0962) 62281

Further information: Academic Registrar

Kingston Poly

Kingston Polytechnic, Penrhyn Road, Kingston upon Thames KT1 2EE
Telephone: 01-549 1366

Further information: Academic Registrar

Lancashire Poly

Lancashire Polytechnic, Preston PR1 2TQ
Telephone: Preston (0772) 22141

Further information: Educational Liaison Office

Lancaster

University of Lancaster Lancaster LA1 4YW
Telephone Lancaster (0524) 65201

Further information Graduate Studies Officer

La Sainte Union CHE (Southampton)

La Sainte Union College of Higher Education
The Avenue Southampton SO9 5HB
Telephone Southampton (0703) 228761

Further information Co-ordinator of In Service Courses

Leeds

University of Leeds Leeds LS2 9JT
Telephone Leeds (0532) 431751

Further information Registrar

Leeds Poly

Leeds Polytechnic Calverley Street Leeds LS1 3HE
Telephone Leeds (0532) 462903

Further information Admissions Officer

Leicester

University of Leicester University Road Leicester LE1 7RH
Telephone Leicester (0533) 554455

Further information Registrar (Higher Degrees)

Leicester Poly

Leicester Polytechnic PO Box 143 Leicester LE1 9BH
Telephone Leicester (0533) 551551

Further information Academic Registrar

Lincoln CT

Lincoln College of Technology, Cathedral Street, Lincoln LN2 5HQ
Telephone: Lincoln (0522) 30641

Further information: Head of Department of Business and Management Studies

Liverpool

University of Liverpool, PO Box 147, Liverpool L69 3BX
Telephone: 051-709 6022

Further information: Registrar

Liverpool IHE

Liverpool Institute of Higher Education, PO Box 6, Liverpool L16 9JD
Telephone: 051-722 2361

Further information: Director of In-Service Education

Liverpool Poly

Liverpool Polytechnic, Rodney House, 70 Mount Pleasant, Liverpool L3 5UX
Telephone: 051-207 3581

Further information: Admissions Officer

London (Birkbeck)

Birkbeck College, Malet Street, London WC1E 7HX
Telephone: 01-580 6622

Further information: Registrar

ndon (Cardiothoracic Inst)

othoracic Institute, Brompton Hospital, don SW3 6HP
elephone: 01-352 8121

Further information: Secretary

London (Courtauld Inst)

Courtauld Institute of Art, 20 Portman Square, London W1H 0BE
Telephone: 01-935 9292

Further information: Registrar

London (Goldsmiths')

University of London Goldsmiths' College, Lewisham Way, London SE14 6NW
Telephone: 01-692 7171

Further information: Admissions Office

London (Imperial)

Imperial College of Science and Technology, London SW7 2AZ
Telephone: 01-589 5111

Further information: Registrar

London (Inst Archaeol)

Institute of Archaeology, 31-4 Gordon Square, London WC1H 0PY
Telephone: 01-387 6052

Further information: Registrar

London (Inst Cancer Research)

Institute of Cancer Research, 17A Onslow Garden, London SW7 3AL
Telephone: 01-352 8133 (Secretary); 01-643 8901 (Dean)

Further information: Dean's Office, Institute of Cancer Research, Clifton Avenue, Sutton, Surrey SM2 5PX

London (Inst Commonwealth Studies)

Institute of Commonwealth Studies, 27 Russell Square, London WC1B 5DS
Telephone: 01-580 5876

Further information: Assistant Secretary

London (Inst Dermatology)

Institute of Dermatology 5 Lisle Street Leicester Square London WC2H 9BJ
Telephone 01-437 8383

Further information Dean

London (Inst Ed)

Institute of Education 20 Bedford Way London WC1H 0AL
Telephone 01 636 1500

Further information Information Officer

London (Inst Historical Research)

Institute of Historical Research University of London Senate House London WC1E 7HU
Telephone 01 636 0272

Further information Secretary and Librarian

London (Inst Laryngology and Otology)

Institute of Laryngology and Otology 330 2 Gray s Inn Road London WC1X 8EE
Telephone 01 837 8855

Further information Secretary

London (Inst Latin American Studies)

Institute of Latin American Studies 31 Tavistock Square London WC1H 9HA
Telephone 01 387 5671

Further information Assistant Secretary

London (Inst Neurology)

Institute of Neurology The National Hospital Queen Square London WC1N 3BG
Telephone 01 837 3611

Further information Registrar

London (Inst Obstetrics and Gynaecology)

Institute of Obstetrics and Gynaecology Central Office Queen Charlotte s Maternity Hospital Goldhawk Road London W6 0XG
Telephone 01 741 8351

Further information Academic Sub Dean

London (Inst Ophthalmology)

Institute of Ophthalmology Judd Street London WC1H 9QS
Telephone 01 387 9621

Further information Dean

London (Inst Orthopaedics)

Institute of Orthopaedics Royal National *Orthopaedic Hospital* Brockley Hill Stanmore Middlesex HA7 4LP
Telephone 01 954 2300

Further information Dean

London (Inst Psychiatry)

Institute of Psychiatry Maudsley Hospital Denmark Hill London SE5 8AF
Telephone 01 703 5411

Further information Dean

London (Inst US Studies)

Institute of United States Studies 31 Tavistock Square London WC1H 9EZ
Telephone 01 387 5534

Further information Administrative Officer

London (Jews')

Jews College Albert Road Hendon London NW4 2SJ
Telephone 01 203 6427/8/9

Further information Executive Director

London (KQC)

King's College, London, Strand, London WC2R 2LS
Telephone: 01-836 5454

Further information: Admissions Office or appropriate departmental head

London (LBS)

London Business School, Sussex Place, Regent's Park, London NW1 4SA
Telephone: 01-262 5050

Further information: Registrar, Post Graduate Programmes

London (LSE)

London School of Economics and Political Science, Houghton Street, London WC2A 2AE
Telephone: 01-405 7686

Further information: Graduate Admissions Office

London (LSH and TM)

London School of Hygiene and Tropical Medicine, Keppel Street, London WC1E 7HT
Telephone: 01-636 8636

Further information: Registrar

London (Pharmacy)

School of Pharmacy, 29-39 Brunswick Square, London WC1N 1AX
Telephone: 01-837 7651

Further information: Registrar

London (Queen Mary)

Queen Mary College, Mile End Road, London E1 4NS
Telephone: 01-980 4811

Further information: Registrar

London (RHBC)

Royal Holloway and Bedford New College, Egham Hill, Egham, Surrey TW20 0EX
Telephone: Egham (0784) 34455

Further information: Registrar

London (Royal Veterinary)

Royal Veterinary College, Royal College Street, London NW1 0TU
Telephone: 01-387 2898

Further information: Registrar

London (SOAS)

School of Oriental and African Studies, Malet Street, London WC1E 7HP
Telephone: 01-637 2388

Further information: Registrar

London (SSEES)

School of Slavonic and East European Studies, Senate House, Malet Street, London WC1E 7HU
Telephone: 01-637 4934

Further information: Registrar

London (UC)

University College, Gower Street, London WC1E 6BT
Telephone: 01-387 7050

Further information: Registrar

London (Warburg)

Warburg Institute, Woburn Square, London WC1H 0AB
Telephone: 01-580 9663

Further information: Secretary

London (Westfield)

Westfield College Kidderpore Avenue Hampstead London NW3 7ST
Telephone 01-435 7141

Further information Registrar

London (Wye)

Wye College Wye Ashford Kent TN25 5AH
Telephone Ashford (0233) 812401

Further information Registrar

London (Charing Cross and Westminster)

Charing Cross and Westminster Hospital Medical School Reynolds Building St Dunstan s Road London W6 8RP
Telephone 01 748 2040

Further information Registrar

London (Guy's & St Thomas')

United Medical Schools of Guy s and St Thomas Hospitals London Bridge London SE1 9RT
Telephone 01 407 7600

Further information Secretary

London (Middlesex)

The Middlesex Hospital Medical School London W1P 7PN
Telephone 01-636 8333

urther information Medical School Office

London (Royal Free)

Royal Free Hospital School of Medicine Rowland Hill Street London NW3 2PF
Telephone 01 794 0500

urther information Registrar

London (St Bartholomew's)

St Bartholomew s Hospital Medical College West Smithfield London EC1A 7BE
Telephone 01 606 7404

Further information Registrar

London (St George's)

St George s Hospital Medical School Cranmer Terrace London SW17 0RE
Telephone 01 672 1255

Further information Academic Registrar

London (St Mary's)

St Mary s Hospital Medical School Norfolk Place London W2 1PG
Telephone 01 723 1252

Further information Secretary

London Bible College

London Bible College Green Lane Northwood Middlesex HA6 2UW
Telephone Northwood (092 74) 26061

Further information Academic Registrar

London C Furniture

London College of Furniture 41 Commercial Road London E1 1LA
Telephone 01 247 1953

Further information Registrar

London C Printing

London College of Printing Elephant and Castle London SE1 6SB
Telephone 01 735 8484 9100

Further information Director of Higher Studies

Loughborough

Loughborough University of Technology, Loughborough, Leicestershire LE11 3TU
Telephone Loughborough (0509) 263171

Further information Academic Registrar (higher awards)

Manchester (UMIST)

University of Manchester Institute of Science and Technology, PO Box 88, Manchester M60 1QD
Telephone 061-236 3311

Further information Registrar

Luton CHE

Luton College of Higher Education, Park Square, Luton LU1 3JU
Telephone Luton (0582) 34111

Further information Chief Administrative Officer

Manchester Poly

Manchester Polytechnic, All Saints, Manchester M15 6BH
Telephone 061-228 6171

Further information Secretary or Head of Department

Manchester

University of Manchester, Manchester M13 9PL
Telephone 061-273 3333

Further information Registrar

Middlesex Poly

Middlesex Polytechnic, Admissions Office, 114 Chase Side, London N14 5PN
Telephone 01-886 6599

Further information Admissions Office

Mid-Kent CH & FE

Further information Chief Administrative Officer

Napier C (Edinburgh)

Napier College Colinton Road Edinburgh EH10 5DT
Telephone 031-447 7070

Further information Academic Registrar

New C (Durham)

New College Neville s Cross Centre Durham DH1 4SY
Telephone Durham (0385) 47325

Further information Registrar

Newcastle

University of Newcastle upon Tyne Newcastle upon Tyne NE1 7RU
Telephone Newcastle (0632) 328511

Further information Registrar

Newcastle Poly

Newcastle upon Tyne Polytechnic Ellison Building Ellison Place Newcastle upon Tyne NE1 8ST
Telephone Newcastle (0632) 326002

Further information Academic Registrar

Norfolk CA & T

Norfolk College of Arts and Technology Tennyson Avenue King s Lynn PE30 2QW
Telephone King s Lynn (0533) 61144

Further information Head of Department of Management and Business Studies

N Cheshire C

North Cheshire College, Padgate Campus, Fearnhead, Warrington WA2 0DB
Telephone: Padgate (0925) 814343

Further information: Admissions Tutor

NE London Poly

North East London Polytechnic, 1: Barking Precinct, Longbridge Road, Dagenham, Essex RM6 2AS 2: West Ham Precinct, Romford Road, London E15 4LZ
Telephone: 01-590 7722

Further information: Assistant Registrar

NE Wales IHE

North East Wales Institute of Higher Education, Connah's Quay, Deeside, Clwyd CH5 4BR
Telephone: Deeside (0244) 817531

Further information: Admissions Tutor

N Lindsey CT (Scunthorpe)

North Lindsey College of Technology, Kingsway, Scunthorpe, South Humberside DN17 1AJ
Telephone: Scunthorpe (0724) 855022

Further information: Principal

North Scotland CAg

North of Scotland College of Agriculture, School of Agriculture, 581 King Street, Aberdeen AB9 1UD
Telephone: Aberdeen (0224) 40291

Further information: Director of Studies

N Staffs Poly

North Staffordshire Polytechnic, 1: Stoke-on-Trent, College Road, Stoke-on-Trent ST4 2DE 2: Stafford, Beaconside, Stafford ST18 0AD
Telephone: 1: Stoke-on-Trent (0782) 45531 2:Stafford (0785) 52331

Further information: 1: Academic Registrar 2:Academic Registrar

---

Norwich City CF & HE

Norwich City College of Further and Higher Education, Ipswich Road, Norwich NR2 2LJ
Telephone: Norwich (0603) 660011

Further information: Student Services Section

Nottingham

University of Nottingham, University Park, Nottingham NG7 2RD
Telephone: Nottingham (0602) 506101

Further information: Registrar

Open

Open University, Walton Hall, PO Box 49, Milton Keynes MK7 6AD
Telephone: Milton Keynes (0908) 74066

Further information: Higher Degrees Office

Oxford

University of Oxford, Registrar and Graduate Admissions Office, University Offices, Wellington Square, Oxford OX1 2JD
Telephone: Oxford (0865) 56747

Further information: Graduate Admissions Office

Oxford Poly

Oxford Polytechnic, Headington, Oxford OX3 0BP
Telephone: Oxford (0865) 64777

Further information: Academic Secretary

Paisley CT

Paisley College of Technology High Street
Paisley Renfrewshire PA1 2BE
Telephone 041 887 1241

Further information Head of appropriate department

Plymouth Poly

Plymouth Polytechnic Drake Circus Plymouth
PL4 8AA
Telephone Plymouth (0752) 21312

Further information Registrar

Poly of Central London

Polytechnic of Central London 309 Regent Street London W1R 8AL
Telephone 01-486 5811

Further information Academic Registrar

Poly of North London

Polytechnic of North London Holloway Road
London N7 8DB
Telephone 01-607 2789

Further information Academic Registrar

Poly of Wales

Polytechnic of Wales Pontypridd Glamorgan
CF37 1DL
Telephone Pontypridd (0443) 405133

Further information Registrar

Portsmouth Poly

Portsmouth Polytechnic Museum Road
Portsmouth PO1 2QQ
Telephone Portsmouth (0705) 827681

Further information Assistant Registrar

Reading

University of Reading Whiteknights Reading
RG6 2AH
Telephone Reading (0734) 875123

Further information Assistant Registrar (Postgraduate Office)

Robert Gordon's IT (Aberdeen)

Robert Gordon's Institute of Technology
Schoolhill Aberdeen AB9 1FR
Telephone Aberdeen (0224) 633611

Further information Academic Registrar

Roehampton IHE

Roehampton Institute of Higher Education
Roehampton Lane London SW15 5PJ
Telephone 01 878 5751

Further information Academic Registrar

Royal CA

Royal College of Art Kensington Gore
London SW7 2EU
Telephone 01 584 5020

Further information Registrar

Royal Military CSc

Royal Military College of Science Shrivenham
Swindon Wiltshire SN6 8LA
Telephone Swindon (0793) 782551

Further information Academic Registrar

Royal Naval EngC

Royal Naval Engineering College Manadon
Plymouth PL5 3AQ
Telephone Plymouth (0752) 553740

Further information Academic Registrar

Royal NCM

Royal Northern College of Music, 124 Oxford Road, Manchester M13 9RD
Telephone: 061-273 6283

Further information: Secretary for Admissions

St Andrews

University of St Andrews, St Andrews, Fife KY16 9AJ
Telephone: St Andrews (0334) 76161

Further information: Secretary

St Helens CT

St Helens College of Technology, Water Street, St Helens, Merseyside WA10 1PZ
Telephone: St Helens (0744) 33766

Further information: Head of School of Management Studies

St Mark & St John C (Plymouth)

College of St Mark and St John, Derriford Road, Plymouth PL6 8BH
Telephone: Plymouth (0752) 777188

Further information: Admissions Officer

S Martin's C (Lancaster)

S Martin's College, Lancaster LA1 3JD
Telephone: Lancaster (0524) 63446

Further information: Registrar

St Martin's SA (London)

St Martin's School of Art, 107-109 Charing Cross Road, London WC2H 0DU
Telephone: 01-437 0611

Further information: Senior Administrative Officer

St Mary's C (Strawberry Hill)

St Mary's College Strawberry Hill
Twickenham TW1 4SX
Telephone 01 892 0051

Further information Executive Vice Principal

St Paul & St Mary's C

College of St Paul and St Mary The Park
Cheltenham Gloucestershire GL50 2RH
Telephone Cheltenham (0242) 513836

Further information Information and Appointments Officer

Salford

University of Salford Salford M5 4WT
Telephone 061 736 5843

Further information Registrar

Scottish C Textiles (Galashiels)

Scottish College of Textiles Netherdale
Galashiels TD1 3HF
Telephone Galashiels (0896) 3351

Further *information* Academic Registrar

Seale-Hayne C

Seale Hayne College Newton Abbot Devon
TQ12 6NQ
Telephone Newton Abbot (0626) 2323

Further information Principal

Sheffield

University of Sheffield Western Bank
Sheffield *S10 2TN*
Telephone Sheffield (0742) 78555

Further information Head of appropriate department

Sheffield City Poly

Sheffield City Polytechnic Pond Street
Sheffield S1 1WB
Telephone Sheffield (0742) 20911

Further information Director of Student Services Centre

Slough CHE

Slough College of Higher Education
Wellington Street Slough SL1 1YG
Telephone Slough (0753) 34585

Further information Management Centre

Southampton

University of Southampton Highfield
Southampton SO9 5NH
Telephone Southampton (0703) 559122

Further information Academic Registrar

Southampton IHE

Southampton Institute of Higher Education, East Park Terrace, Southampton SO9 4WW
Telephone: Southampton (0703) 229381

Further information: Academic Registrar

South Bank Poly

Polytechnic of the South Bank, Borough Road, London SE1 0AA
Telephone: 01-928 8989

Further information: Central Registry

South Glamorgan IHE

South Glamorgan Institute of Higher Education, Cyncoed Road, Cyncoed, Cardiff CF2 6XD
Telephone: Cardiff (0222) 551111

Further information: Information Officer

Stirling

University of Stirling, Stirling FK9 4LA
Telephone: Stirling (0786) 3171

Further information: Registrar

Strathclyde

University of Strathclyde, 204 George Street, Glasgow G1 1XW
Telephone: 041-552 4400

Further information: Postgraduate Office

Suffolk CH & FE

Suffolk College of Higher and Further Education, Rope Walk, Ipswich, Suffolk IP4 1LT
Telephone: Ipswich (0473) 55885

Further information: Registrar

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Further information is available in our Postgraduate Courses and Research Facilities Prospectus, available from Ms G Blaikley Information Officer Trent Polytechnic Burton Street Nottingham NG1 4BU Director Professor J O'Neill BSc (Eng) C Eng Telephone (0602) 418248 Telex 377534

Trent Polytechnic Nottingham



Sunderland Poly

Sunderland Polytechnic, Langham Tower, Ryhope Road, Sunderland SR2 7EE
Telephone: Sunderland (0783) 76231

Further information: Academic Registrar

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University of Surrey, Guildford, Surrey GU2 5XH
Telephone: Guildford (0483) 571281

Further information: Postgraduate Admissions Officer

Sussex

University of Sussex, Admissions Office, Sussex House, Falmer, Brighton, Sussex BN1 9RH
Telephone: Brighton (0273) 606755

Further information: Admissions Office

Swindon C

The College, Regent Circus, Swindon, Wiltshire SN1 1PT
Telephone: Swindon (0793) 40131

Further information: Vice Principal

Teesside Poly

Teesside Polytechnic, Borough Road, Middlesbrough, Cleveland TS1 3BA
Telephone: Middlesbrough (0642) 218121

Further information: Registrar

hames Poly

ames Polytechnic, Wellington Street, Woolwich, London SE18 6PF
Telephone: 01-854 2030

Further information: Academic Registrar

Thurrock TC (Grays)

Thurrock Technical College, Woodview, Grays, Essex RM16 4YR
Telephone: Purfleet (0708) 863011

Further information: Dean of Department of Management and Business Studies

Trent Poly

Trent Polytechnic, Burton Street, Nottingham NG1 4BU
Telephone: Nottingham (0602) 418248

Further information: Academic Registrar

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Telephone: Kettering (0536) 85353

Further information: DMS Course Tutor

Trinity C (Carmarthen)

Trinity College, Carmarthen, Dyfed SA31 3EP
Telephone: Carmarthen (0267) 237971

Further information: Registrar

Ulster

University of Ulster, Coleraine, Northern Ireland BT52 1SA
Telephone: Coleraine (0265) 4141

Further information: Academic Registrar

Wales (Aberystwyth)

The University College of Wales, Aberystwyth, Dyfed SY23 2AX
Telephone: Aberystwyth (0970) 3177

Further information: Registrar and Secretary

Wales (Bangor)

University College of North Wales Bangor
Gwynedd LL57 2DG
Telephone Bangor (0248) 351151

Further information Registrar

Wales (Cardiff)

University College (at Cardiff) PO Box 78
Cardiff CF1 1XL
Telephone Cardiff (0222) 44211

Further information Registrar

Wales (C of Medicine)

University of Wales College of Medicine
Heath Park Cardiff CF4 4XN
Telephone Cardiff (0222) 755944

Further information Registrar and Secretary

Wales (Lampeter)

Saint David's University College Lampeter
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Telephone Lampeter (0570) 422351

Further information Deputy Registrar

Wales (Swansea)

University College of Swansea Singleton Park
Swansea Glamorgan SA2 8PP
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Further information Senior Assistant Registrar (Academic)

Wales (UWIST)

University of Wales Institute of Science and Technology PO Box No 68 Cardiff CF1 3XA
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Warwick

University of Warwick, Coventry CV4 7AL
Telephone: Coventry (0203) 523523

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Watford C

Watford College, Hempstead Road, Watford, Hertfordshire WD1 3EZ
Telephone: Watford (0923) 41211

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Welsh CM & D (Cardiff)

Welsh College of Music and Drama, Castle Grounds, Cathays Park, Cardiff CF1 3ER
Telephone: Cardiff (0222) 42854

Further information: Registrar

West Glamorgan IHE (Swansea)

West Glamorgan Institute of Higher Education, Higher Education Registry, Townhill Road, Swansea SA2 0UT
Telephone: Swansea (0792) 203482

Further information: Higher Education Registry

West London IHE

West London Institute of Higher Education, Gordon House, 300 St Margaret's Road, Twickenham, Middlesex TW1 1PT
Telephone: 01-891 0121

Further information: Registrar

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est Midlands CHE (Walsall)

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Telephone: Walsall (0922) 29141

Further information: Academic Registrar

West Scotland AgC

West of Scotland Agricultural College, Auchincruive, Ayr KA6 5HW
Telephone: Annbank (0292) 520331

Further information: Deputy Principal

West Sussex IHE (Bognor Regis)

West Sussex Institute of Higher Education, The Dome, Upper Bognor Road, Bognor Regis, Sussex PO21 1HR
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Further information: Registrar

Wimbledon SA

Wimbledon School of Art, Merton Hall Road, London SW19 3QA
Telephone: 01-540 0231

Further information: Registrar

Wolverhampton Poly

The Polytechnic, Wolverhampton, The Molineux, Molineux Street, Wolverhampton WV1 1SB
Telephone: Wolverhampton (0902) 710654

Further information: Academic Registrar

Worcester CHE

Worcester College of Higher Education, Henwick Grove, Worcester WR2 6AJ
Telephone: Worcester (0905) 428080

Further information: Vice Principal

Worcester TC

Worcester Technical College, Deansway, Worcester WR1 2JF
Telephone: Worcester (0905) 28383

Further information: Registrar

York

University of York, Heslington, York YO1 5DD
Telephone: York (0904) 59861

Further information: Graduate Office

Index of subject headings

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